ISDN through MTRIE

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ISDN

%ISDN-6-CONNECT : Interface [chars] is now connected to [chars] [chars]

Explanation	This is an informational message sent when a call is connected. The message displays the remote name and number, which it receives from the Point-to-Point Protocol (PPP) authentication or from where the dialer placed the call to.
Recommended Action	No action is required.

%ISDN-6-DISCONNECT : Interface [chars] disconnected from [chars] [chars], call lasted [int] seconds

Explanation	This is an informational message sent when a call is disconnected. The message displays the remote name and number, which it receives from the Point-to-Point Protocol (PPP) authentication or from where the dialer placed the call to. It also shows how long the call lasted.
Recommended Action	No action is required.

%ISDN-1-NOMEMORY : no memory for [chars]

Explanation	The requested operation could not be accomplished because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%ISDN-4-INVALID_SPID : Interface [chars], Spid[dec] was rejected

Explanation	The SPID configured in the router has been rejected by the switch.
Recommended Action	Determine the correct SPID, reenter the SPID and clear the BRI interface.

%ISDN-4-INVALID_CALLEDNUMBER : Interface [chars], Ignoring call, LDN and Called Party Number mismatch

Explanation	The incoming ISDN call is ignored because the Called Party Number does not match the LDN numbers configured in the router.
Recommended Action	Correct the LDN in the router to match the Called Party Number delivered in the incoming setup message.

%ISDN-4-INVALID_EID : Interface [chars], Ignoring call, EndPoint Identifier (EID) mismatch

Explanation	The incoming ISDN call is ignored because the EID delivered in the incoming setup message cannot be matched.

%ISDN-4-INVALID_EID : Interface [chars], Ignoring call, EndPoint Identifier (EID) mismatch

Recommended Action	If EID is delivered in the setup message, use the `isdn debugs` and `show isdn status` commands to determine the current EID values. You may need to contact the service provider.

%ISDN-6-LAYER2UP : Layer 2 for Interface [chars], TEI [int] changed to up

Explanation	This is an informational message. It is sent when an ISDN Layer2 logical link is up. It also shows the TEI associated with this logical link.
Recommended Action	No action is required.

%ISDN-3-LAYER2_UP : Layer 2 for Interface [chars], TEI [int] changed to up

Explanation	This is an informational message but being logged as an ERR at request from some customers. It is sent when an ISDN Layer2 logical link is up. It also shows the TEI associated with this logical link.
Recommended Action	No action is required.

%ISDN-6-LAYER2DOWN : Layer 2 for Interface [chars], TEI [int] changed to down

Explanation	This is an informational message. It is sent when an ISDN Layer2 logical link is down. It also shows the TEI associated with this logical link.
Recommended Action	No action is required.

%ISDN-3-LAYER2_DOWN : Layer 2 for Interface [chars], TEI [int] changed to down

Explanation	This is an informational message but being logged as ERR at request from some customers. It is sent when an ISDN Layer2 logical link is down. It also shows the TEI associated with this logical link.
Recommended Action	No action is required.

%ISDN-6-CHAN_UNAVAILABLE : Interface [chars] Requested Channel [dec] is not available

Explanation	This is an informational message. It is sent when the requested channel is not available.
Recommended Action	No action is required.

%ISDN-6-CALL_COLLISION : Interface [chars] Call Cid [hex] Cref [hex] collision on Channel [dec] in_use_cid [hex] cref [hex], Channel awarded to the received call

Explanation	This is an informational message. It is sent when a Call is received that collides with an existing call on the same channel.
Recommended Action	No action is required.

%ISDN-6-NO_TIMER : No Free Timer Entry, caller [hex], timers used [dec]

Explanation	This could be an indication of low memory. It is sent when the ISDN protocol cannot start new timers for it's operation.
Recommended Action	capture the show isdn mem, show isdn status output for possible debugging information. Reduce other system activity to ease the memory demands in the system.

%ISDN-6-INVALID_TIMER : [chars]: Invalid Timer Handle, caller [hex] handle %3d

Explanation	This could be an indication of low memory. It is sent when an invalid ISDN timer handle is passed on for timer operations
Recommended Action	capture the show isdn mem, show isdn status output for possible debugging information. Reduce other system activity to ease the memory demands in the system.

%ISDN-4-INVALID_EVENT : [chars]: Bad Event Received For Current State

Explanation	The State Transition for the ISDN L2 Socket Process failed.
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-SPURIOUS_CONNECT : [chars]: Spurious Connection Accepted and Closed on port [int]

Explanation	An unknown TCP connection was accepted and refused.

%ISDN-4-SPURIOUS_CONNECT : [chars]: Spurious Connection Accepted and Closed on port [int]

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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-GET_STATUS_STATE_FAIL : [chars]: isdn_get_status_state: Unknown DSL [int]

Explanation	An attempt to retrieve the status of a DSL that is not currently configured.
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-ISDN_L2_INTERFACE_NOT_REGISTERED : [chars]: isdn_to_L2: Unknown DSL [int] for command [chars]

Explanation	The ISDN Stack has not registered its L2 Message Handler
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-BAD_DSL_FOR_CREATE_DELETE_L2 : [chars]: isdn_create_delete_signalling_channel: Unknown DSL [int] for [chars]

Explanation	The Creation/Deletion service for the L2 Signalling handlerfor the given DSL is missing
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-OPEN_TEMP_SOCKET_FAIL : [chars]: Failed to Open Required Temporary Socket[chars]

Explanation	The (Re)Open attempt for a required temporary socket failed,without this socket the L2 socket process will fail
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-ISDN_UNEXPECTED_EVENT : [chars]: Occurred at [chars]:[dec]

Explanation	An unexpected event of significance has occurred
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-RLM_STATUS_CHANGE : ISDN SC [chars]: Status Changed to: [chars].

Explanation	ISDN has been notified by the RLM component of a status change in the RLM link
Recommended Action	No action is required.

%ISDN-2-ISDN_GENERAL_TRACEBACK : [chars]:[dec]

Explanation	A debug - traceback condition has occurred
Recommended Action	No action is required.

%ISDN-3-ISDN_RESOURCE_UNAVAILABLE : [chars]: Resource not available, at [chars]:[dec]

Explanation	Hardware resource could not be allocated
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-2-ISDN_FATAL : ISDN FATAL ERROR: file [chars], function [chars], message: [chars]

Explanation	ISDN has detected a fatal system error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-3-ISDN_CCB_FREE : [chars]: CCB with call id [hex] on b channel [dec] was leaked, but has been freed by ISDN Housekeeping. Reason: [chars]

Explanation	A data structure internal to ISDN has leaked.
Recommended Action	No action is required.

%ISDN-3-ISDN_CCB_FREE_FAILS : [chars]: CCB with call id [hex] on b channel [dec] was leaked (reason: [chars]), and can't be free'd by ISDN Housekeeping.

Explanation	A data structure internal to ISDN has leaked and we can't fix it for some reason.
Recommended Action	No action is required.

%ISDN-4-ISDN_CCB_LEAK : [chars]: CCB with callid [hex] on b channel [dec] has been leaked. Reason: [chars]

Explanation	A data structure internal to ISDN has been leaked
Recommended Action	No action is required.

%ISDN-4-SERVICE : Interface [chars] [chars] [chars] message for chan [dec] state [chars]

Explanation	This is an informational message but will be logged as a warning message if so configured.
Recommended Action	No action is required.

%ISDN-4-RESTART : Interface [chars] [chars] [chars] message with restart class of [chars] chan [dec]

Explanation	This is an informational message but will logged as a warning message if so configured.

%ISDN-4-RESTART : Interface [chars] [chars] [chars] message with restart class of [chars] chan [dec]

Recommended Action	No action is required.

%ISDN-4-STATUS : Interface [chars] [chars] [chars] st [hex] ev [hex] cid [hex] cref [hex]

Explanation	This is an informational message but being logged as a warning message if so configured.
Recommended Action	No action is required.

%ISDN-4-SERV_AUDIT_C1 : Interface [chars] service audit trigger condition [dec] on channel [dec]

Explanation	This is an informational message but will be logged as a warning message if so configured.
Recommended Action	No action is required.

%ISDN-5-SERV_AUDIT_C2 : Interface [chars] service audit trigger condition [dec] on channel [dec]

Explanation	This is an informational message but will be logged as a warning message if so configured.
Recommended Action	No action is required.

%ISDN-6-SERV_AUDIT_C3 : Interface [chars] service audit trigger condition [dec] on channel [dec]

Explanation	This is an informational message but will be logged as a warning message if so configured.
Recommended Action	No action is required.

%ISDN-4-ISDN_NLCB_LEAK : [chars]: NLCB leak detected. nlcb [hex] call id [hex] reason: [chars]

Explanation	A data structure internal to ISDN has not been freed
Recommended Action	No action is required.

%ISDN-3-ISDN_NLCB_FREE : [chars]: NLCB with call id [hex] was leaked, but has been freed by ISDN Housekeeping. Reason: [chars]

Explanation	A data structure internal to ISDN has leaked.
Recommended Action	No action is required.

%ISDN-6-REPEATED_SETUP : Interface [chars] Call Cid [hex] Cref [hex] received a retransmitted setup on channel [dec] in_use_cid [hex] cref [hex].

Explanation	This is an informational message sent when a duplicate SETUP message is received on a B-channel. This indicates that the rate of calls being received is momentarily greater than the rate calls can be processed. No action is required.
Recommended Action	No action is required.

%ISDN-6-NFAS_STATUS_CHANGE : [chars] [chars] [chars] [chars]

Explanation	The NFAS D-channel status has changed.
Recommended Action	No action is required.

%ISDN-2-ISDN_EXIT : [chars]

Explanation	The ISDN task has terminated execution for the specified reason, and may cause CISCO IOS to terminate.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

ISR4000_RP_NGIO_ATM

%ISR4000_RP_NGIO_ATM-4-SETUPVC : Interface [chars], VC ([dec]) setup failed, reason = [dec]

Explanation	A command to setup a VC has failed on RP.

%ISR4000_RP_NGIO_ATM-4-SETUPVC : Interface [chars], VC ([dec]) setup failed, reason = [dec]

Recommended Action	The SPA ATM driver has detected a problem creating the internal OAM VC. Reload the indicated SPA card to reconfigure the internal OAM VC. If the error messages persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a 'show tech-support' to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%ISR4000_RP_NGIO_ATM-4-TEARDOWNVC : Interface [chars], VC ([dec]) teardown failed, (vc state = [dec]/[dec])

Explanation	A command to remove a VC config has failed on RP.
Recommended Action	The SPA ATM driver has detected a problem tearing down the internal OAM VC. Reload the indicated SPA card to do a clean tear down of the internal OAM VC. If the error messages persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a 'show tech-support' to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%ISR4000_RP_NGIO_ATM-5-MPVCVPSETUP : Interface [chars] has a VC/VP ([dec]) configured already, VC/VP ([dec]) cannot be configured.

Explanation	The SPA ATM driver supports configuring only one VC/VP under a point to multi point sub-interface. The sub-interface specified in the message already has VP/VC configured.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_FLOWID_GET_FAIL : Failed to get a flow control identifier for interface [chars] for index [dec]

Explanation	The SPA driver is not able to obtain the datapath flow control identifier for the data path identifier under the interface specified in the message. This indicates a software error.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_DPIDB_ALLOC_FAIL : Failed to allocate a data plane identifier for interface [chars] for VCD [dec]

Explanation	The SPA driver is not able to allocate the datapath identifier for the VCD under the interface specified in the message. This indicates a software error.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_INGRESS_ID_ALLOC_FAIL : Failed to allocate VC ingress identifier on interface [chars] for VCD [dec] ebfc_id [dec] when [chars]

Explanation	The ATM SHIM is not able to allocate the ingress identifier for the VCD under the interface specified in the message. This indicates a software error.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_DPIDB_GET_FAIL : Failed to get a data plane identifier for interface [chars] for VCD [dec]

Explanation	The SPA driver is not able to obtain the datapath identifier for the VCD under the interface specified in the message. This indicates a software error.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_TXCHANL_GET_FAIL : Failed to get a valid tx_chan id for interface [chars] for VCD [dec]

Explanation	The SPA driver is not able to obtain the datapath tx channel identifier for the VCD under the interface specified in the message. This indicates a SPA occur error.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_SPA_SETUP_FAIL : SPA Error response on interface [chars] when [chars] for VCD [dec] ebfc_id [dec] ret_val [dec]

Explanation	The SPA give a error response for ATM setup or response timeout in atm vc setup message. This indicates a SPA occur error.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_CFG_SEND_FAIL : Error in sending message to SPA on interface [chars] when [chars] for VCD [dec] ebfc_id [dec]

Explanation	The SPA give a error response for ATM setup or response timeout in atm vc setup message. This indicates a SPA occur error.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_CORE_GET_FAIL : Failed to get a ATM VC core info for interface [chars] VCD [dec]

Explanation	Could not get VC core information when get SPA VCOPEN or VCMODIRY response. This indicates a ATM information error.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_ENCAP_GET_FAIL : Failed to get ATM encapsulation for interface [chars] ([dec]/[dec]) VCD [dec]

Explanation	Could not get VC encapsulation information when get SPA VCOPEN or VCMODFY response This indicates ATM occur error.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_ERROR_ENCAP_TYPE : Get ATM ERROR encapsulation for interface [chars] ([dec]/[dec]) VCD [dec]

Explanation	Get a ERROR VC encapsulation information when get SPA VCOPEN or VCMODFY response This indicates ATM occur error.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_CON_SET_FAIL : Failed set ATM con for interface [chars] ([dec]/[dec]) VCD [dec]

Explanation	Could not get VC encapsulation information when get SPA VCOPEN or VCMODFY response This indicates ATM occur error.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_EGRESSID_UPDATE_FAIL : Failed to update ATM egress id for interface [chars] VCD [dec] egress_id [dec]

Explanation	Could not update VC egress id when get SPA VCOPEN or VCMODFY response This indicates ATM occur error.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_DPIDX_GET_FAIL : Failed to get ATM dpidx for interface [chars] VCD [dec]

Explanation	Could not get VC dpidx information when get SPA VCOPEN or VCMODFY response This indicates ATM occur error.
Recommended Action	No action is required.

%ISR4000_RP_NGIO_ATM-3-PROCESS_FAIL : process creation failed for [chars]

Explanation	The Periodic one second process creation failed. This indicates a software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISR4000_RP_NGIO_ATM-3-ATM_SPA_AUTOVC_FAIL : [chars]: atm autovc discovery configuration failed, reason: [chars]

Explanation	A command to configure the atm autovc discovery on an atm interface has failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISR4000_RP_NGIO_ATM-3-ATM_SPA_VC_MAX_LIMIT_REACHED : total active atm vc reached system limitation of [dec]

Explanation	total number of active atm vc has reached max limit allowed on the system

%ISR4000_RP_NGIO_ATM-3-ATM_SPA_VC_MAX_LIMIT_REACHED : total active atm vc reached system limitation of [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISR4000_RP_NGIO_ATM-4-ATM_SPA_VC_ABOVE_WM_WARNING : total active atm vc approaching [int] percent of system limitation of [dec]

Explanation	total number of active atm vc is approaching the high water mark of sysyem limitation
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISR4000_RP_NGIO_ATM-5-ATM_SPA_VC_BELOW_WM_NOTICE : total active atm vc below [int] percent of system limitation of [dec]

Explanation	total number of active atm vc below the high water mark of sysyem limitation
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISR4000_RP_NGIO_ATM-3-ATM_PER_SPA_MAX_VC_LIMIT_REACHED : total active atm vc per ATM SPA reached limitation of [dec]

Explanation	total number of active atm vc per ATM SPA has reached max limit
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISR4000_RP_NGIO_ATM-3-ATM_FLOWID_OUT_OF_RANGE : Flow control identifiers for interface [chars] (chan lo [hex] chan hi [hex]) are out of range, Index [hex]

Explanation	The flow control identifier received for the interface is out of range. This indicates SPA driver is responding with out of range flow control identifier

%ISR4000_RP_NGIO_ATM-3-ATM_FLOWID_OUT_OF_RANGE : Flow control identifiers for interface [chars] (chan lo [hex] chan hi [hex]) are out of range, Index [hex]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

ISR_THROUGHPUT

%ISR_THROUGHPUT-3-SETUP_FAILED : Throughput upgrade license set up failed

Explanation	An error occurred when setting up the throughput upgrade licenses.
Recommended Action	

%ISR_THROUGHPUT-6-LEVEL : Throughput level has been set to [dec]00 kbps

Explanation	Throughput level has been set to a number
Recommended Action	

%ISR_THROUGHPUT-6-CRYPTO : Crypto level has been set to [dec]00 kbps

Explanation	Crypto level has been set to a number
Recommended Action	

%ISR_THROUGHPUT-6-UNTHROTTLED : Crypto level is unthrottled

Explanation	Crypto level has been unthrottled
Recommended Action	

%ISR_THROUGHPUT-3-CONF_FAILED : Configuration failed

Explanation	An error occurred when the throughput configuration was attempted.
Recommended Action	

%ISR_THROUGHPUT-3-EULA_NOT_ACCEPTED : The EULA has to be accepted prior to throughput configuration.

Explanation	Users need to accept EULA to activate the license
Recommended Action	Accept EULA for throughput license

%ISR_THROUGHPUT-3-INVALID_CONFIG : An invalid throughput config: [chars] kbps was selected.

Explanation	The configured throughput is unknown
Recommended Action	

ISSU

%ISSU-3-BOOT_SYNC : Problem with sync of ISSU boot state - [chars]

Explanation	The ISSU state between two FRUs is not properly synchronized as a result of a boot error.
Recommended Action	This message will automatically appear during certain events, such as during a FRU removal or if the FRU loses connectivity. In most cases, the router will resynchronize the ISSU state between the FRUs without any user intervention. If the ISSU state is not resynchronized after multiple attempts, the problem is likely a result of another problem. Monitor the other system messages to see if a more serious issue has occurred on your router. If you are unable to resolve this other issue and this message persists, gather the output of show tech-support and provide it to a Cisco technical support representative.

%ISSU-0-BOOT_SYNC_FAIL : Problem with sync of ISSU boot state - [chars]

Explanation	The ISSU state between two FRUs is not properly synchronized as a result of a boot error.
Recommended Action	This message will automatically appear during certain events, such as during a FRU removal or if the FRU loses connectivity. In most cases, the router will resynchronize the ISSU state between the FRUs without any user intervention. If the ISSU state is not resynchronized after multiple attempts, the problem is likely a result of another problem. Monitor the other system messages to see if a more serious issue has occurred on your router. If you are unable to resolve this other issue and this message persists, gather the output of show tech-support and provide it to a Cisco technical support representative.

%ISSU-0-PKG_INCONSIST : Reason: [chars]

Explanation	A software consolidated package or sub-package has an error that indicates the sub-package should not be installed or used.
Recommended Action	If this message is received, the desired consolidated package or sub-package should not be used. Upgrade using a different consolidated package or sub-package, and report the problem consolidated package or sub-package to Cisco technical support.

%ISSU-3-INCOMPAT : The packages in [chars] are not consistent

Explanation	The sub-packages specified for running on the chassis are not compatible with one other.
Recommended Action	Install a compatible set of packages to allow normal operation. This will require booting a known-good package set.

%ISSU-3-BOOT_UNCLEAN : Found reload log file, moved to [chars]

Explanation	A log file was found at bootup indicating that all shutdown tasks were not performed on a previous reload.
Recommended Action	No user action is necessary. The system will automatically resolve most issues related to the shutdown task as part of the bootup procedure. If a problem related to the tasks that did not shutdown occurs, another error message will occur providing information about that problem.

%ISSU-5-ISSU_STATE_INVALID : ISSU stored state found invalid and cleaned up: [chars]

Explanation	The RP has corrected a failed ISSU install state that was detected at bootup.
Recommended Action	No user action is necessary. This is an informative message indicating that the failed ISSU state has been corrected.

%ISSU-0-PKG_MNT_SCRIPT_FAIL : Package: [chars]

Explanation	A consolidated package or sub-package has encountered an error indicating it is not usable.
Recommended Action	Upgrade your software using a different consolidated package or sub-package.

%ISSU-5-ISSU_AUTO_ROLLBACK : ISSU rollback timer expired: initiating rollback

Explanation	An ISSU upgrade has been rolled back because the rollback timer has expired.

%ISSU-5-ISSU_AUTO_ROLLBACK : ISSU rollback timer expired: initiating rollback

Recommended Action	No user action is needed. If you want to commit the ISSU upgrade, redo the upgrade. Otherwise, this is an informational message only.

%ISSU-0-SOFTWARE_INVALID : Package for location [chars]: [chars]

Explanation	The sub-packages have encountered an error related to the structure of the loaded software.
Recommended Action	This error is likely caused by a failure of the boot or installation process or a corrupted provisioning file. If the system displays error messages related to the boot that can be addressed, address those messages. Downloading new software, if possible, may also help with the problem. If the problem persists, gather the output of show tech-support and provide it to a Cisco technical support representative.

%ISSU-0-RESET_FRU_FAIL : Problem with ISSU reset of remote FRU - [chars]

Explanation	After a sub-package installation, one or more FRUs that were upgraded failed to initialize within the timeout period.
Recommended Action	This problem is more likely to occur in routers with larger configurations, so if your router has a large configuration, you may want to wait a few more minutes to see if your hardware initializes. If the hardware continues to not initialize, reset the FRUs which failed to initialize. If resetting the FRUs fails to resolve the issue, gather the output of show tech-support and contact a Cisco technical support representative.

%ISSU-3-UCODE_INCOMPAT : Found mismatch for ucode feature - [chars]

Explanation	During boottime microcode feature version check, a version mismatch was found for this feature.
Recommended Action	Please ensure that versions of features in microcode are compatible by provisioning a different set of microcode files.

%ISSU-3-SYNC_ERR : Problem with sync of state - [chars]

Explanation	The software state between two FRUs or switches is not properly synchronized as a result of a boot error.
Recommended Action	This message may appear during certain events, such as during a FRU or switch removal or if the FRU or switch loses connectivity. In most cases, the router will resynchronize the software state between the FRUs or switches without any user intervention. If the software state is not resynchronized after multiple attempts, the problem is likely a result of another problem. Monitor the other system messages to see if a more serious issue has occurred on your router. If you are unable to resolve this other issue and this message persists, gather the output of show tech-support and provide it to a Cisco technical support representative.

IVR

%IVR-3-BAD_IVR_VERSION : Script requires version [dec].[dec], image supports [dec].[dec]

Explanation	IVR Script requires a higher IVR infrastructure version
Recommended Action	Upgrade IOS, or use a different script

%IVR-3-NOSCRIPT : Could not load IVR script [chars] errno=[dec]=[chars]

Explanation	Could not read in the IVR script
Recommended Action	Check that script exists on the server, and is readable.

%IVR-3-BADSCRIPT : Could not parse malformed IVR script: [chars]

Explanation	Could not parse malformed IVR script
Recommended Action	Check the script and fix the syntax error.

%IVR-3-ABNORMAL_EXIT : TCL IVR Process for this call with CallID [dec] exits , bad event: [chars] received

Explanation	The TCL IVR call process exited for the specified call. The call process did not clear a prior call properly, so other events could not be handled. Only the specified call is affected
Recommended Action	If problem persists for subsequent calls,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.

%IVR-3-LOW_MEMORY : IVR: Sytem running on low memory. Free memory: %l bytes. Call is rejected.

Explanation	System does not have enough memory to accept calls
Recommended Action	Check to see what is causing low system memory.

%IVR-3-LOW_MEMORY_RESOURCE : IVR: System running low on memory ([dec]/100 in use). Call (callID=[dec]) is rejected.

Explanation	System does not have enough free memory to accept a new call

%IVR-3-LOW_MEMORY_RESOURCE : IVR: System running low on memory ([dec]/100 in use). Call (callID=[dec]) is rejected.

Recommended Action	Ensure that the gateway has the recommended amount of memory for this IOS feature set and version.

%IVR-3-LOW_CPU_RESOURCE : IVR: System experiencing high cpu utilization ([dec]/100). Call (callID=[dec]) is rejected.

Explanation	System does not have enough CPU resources available to accept a new call
Recommended Action	Ensure that the call setup rate is within the supported capacity of this gateway.

%IVR-2-APP_CRIT_R : [chars]

Explanation	A critical message was reported by an IVR Tcl application.
Recommended Action	The remedy of the problem is application specific.

%IVR-3-APP_ERR_R : [chars]

Explanation	An error message was reported by an IVR Tcl application.
Recommended Action	The remedy of the problem is application specific.

%IVR-4-APP_WARN_R : [chars]

Explanation	A warning message was reported by an IVR Tcl application.
Recommended Action	The remedy of the problem is application specific.

%IVR-6-APP_INFO_R : [chars]

Explanation	An informational message was reported by an IVR Tcl application.
Recommended Action	The remedy of the problem is application specific.

%IVR-6-APP_PARALLEL : Cannot use dial-peer [dec] (parallel hunt-group) for a rotary or in a hunt-group call.

Explanation	The dial-peer for parallel hunt-groups must have a unique pilot number.
Recommended Action	Create a unique dial-peer destination-number for the parallel hunt-group.

%IVR-6-APP_SEQ_HUNT : Pilot hunt-group '[chars]' found in hunt-group list. Nested hunt-groups are allowed only as the hunt-group's final number.

Explanation	Nested sequential hunt-group detected in dial-peer rotary. Nested hunt-groups is unsupported.
Recommended Action	Do not create hunt-group lists that contain hunt-group pilot numbers.

%IVR-1-APP_PARALLEL_INVALID_LIST : Call terminated. Huntgroup '[dec]' does not contain enough valid SIP end-points to proceed with a parallel call.

Explanation	The call to a parallel hunt-group was denied because less than two valid SIP end-points were found in the huntgroup list.
Recommended Action	Check the hunt-group list's numbers. Remove any incorrect numbers or numbers that have a non-SIP dial-peer. If the numbers are from SIP phones, then verify whether the phones have registered to the system yet.

%IVR-2-INVALID_DSAPP_DIALPEER : Service dsapp contains an invalid dial peer tag: [chars]

Explanation	An invalid dial peer tag has been configured for the dsapp service. The tag either is not in the range from 1 to 2147483647, or it belongs to a non-existent dial-peer.
Recommended Action	Enter the `show running-config` or the `show dial-peer voice` command to find a valid dial peer tag. Reconfigure the dial peer with a valid tag or remove the dial peer tag completely to allow the system to match from the system dial peers.

%IVR-4-INVALID_DSAPP_BLINDTIME : Blind-xfer-wait-time [dec] is invalid. Resetting to [dec] seconds.

Explanation	The configured value for blind-xfer-wait-time was outside of the acceptable range (0-10) and has been reset to the indicated value.
Recommended Action	If the new value for blind-xfer-wait-time is unacceptable, you can change it from the command line interface.

%IVR-4-INVALID_DSAPP_TOGGLE_TIME : Disc-toggle-time [dec] is invalid. Resetting to [dec] seconds.

Explanation	The configured value for disc-toggle-time was outside of the acceptable range (10-30) and has been reset to the indicated value.
Recommended Action	If the new value for disc-toggle-time is unacceptable, you can change it from the command line interface.

%IVR-5-APP_CALL_PREEMPTION : CallID [dec] is being preempted

Explanation	A notification message was reported by an IVR application on detecting callID %d being preempted.
Recommended Action	This is not a problem but notifying syslog about preempted call.

%IVR-2-APP_CRIT : [chars]

Explanation	A critical message was reported by an IVR Tcl application.
Recommended Action	The remedy of the problem is application specific.

%IVR-3-APP_ERR : [chars]

Explanation	An error message was reported by an IVR Tcl application.
Recommended Action	The remedy of the problem is application specific.

%IVR-4-APP_WARN : [chars]

Explanation	A warning message was reported by an IVR Tcl application.
Recommended Action	The remedy of the problem is application specific.

%IVR-6-APP_INFO : [chars]

Explanation	An informational message was reported by an IVR Tcl application.
Recommended Action	The remedy of the problem is application specific.

%IVR-5-APP_MED_INACT_DETECTED : [chars]

Explanation	A notification message was reported by an IVR application on detecting media inactivity.
Recommended Action	This is not a problem but notifying syslog about media inactivity.

%IVR-5-APP_MED_REACT_DETECTED : [chars]

Explanation	A notification message was reported by an IVR application on detecting media activity.
Recommended Action	This is not a problem but notifying syslog about media activity.

%IVR-5-APP_LOG_DUR_CALL_DETECTED : [chars]

Explanation	A notification message was reported by an IVR application on detecting long duration call.
Recommended Action	This is not a problem but notifying syslog about long duration call.

IVR_MSB

%IVR_MSB-3-NOPROMPT : Could not create IVR prompt [chars] errno=[dec]=[chars]

Explanation	Could not read in the IVR prompt
Recommended Action	Check that prompt exists on the server, and is readable.

%IVR_MSB-3-NO_IO_MEMORY : [chars]: Failed to create pool_group [hex] buffer_pool [hex] platform_mc_buf_pool_count [dec]

Explanation	No IO memory to create IVR private pak pool
Recommended Action	Check to see if there is enough IO memory.

%IVR_MSB-3-INVALID_MAX_PROMPTS : [chars]: This version of IOS does not support prompt playout for IVR applications.

Explanation	This error will be displayed if an IVR application is used on a gateway that does not support IVR prompt playout.

%IVR_MSB-3-INVALID_MAX_PROMPTS : [chars]: This version of IOS does not support prompt playout for IVR applications.

Recommended Action	Ensure that this platform and IOS version support the IVR feature set.

%IVR_MSB-3-INVALID_PROMPT_SIZE : [chars]: Bad size for the prompt file [chars]. Read size [dec]. Expected size [dec].

Explanation	Prompt file size error. File may be corrupted.
Recommended Action	Replace the bad prompt file.

IVR_NOSIGNALING

%IVR_NOSIGNALING-3-LOW_MEMORY_RESOURCE : IVR: System running low on memory ([dec]/100 in use). Application cannot be instantiated.

Explanation	System does not have enough free memory to spawn a new instance of IVR application
Recommended Action	Ensure that the gateway has the recommended amount of memory for this IOS feature set and version.

%IVR_NOSIGNALING-3-LOW_CPU_RESOURCE : IVR: System experiencing high cpu utilization ([dec]/100). Application cannot be instantiated.

Explanation	System does not have enough CPU capacity to spawn a new instance of IVR application
Recommended Action	Ensure that the call setup rate is within the supported capacity of this gateway.

KERBEROS

%KERBEROS-3-FORKFAIL : Failed to fork process for [chars].

Explanation	Quite likely, we ran out of memory. Other explanations are possible.
Recommended Action	If this message recurs, call your technical support representative for assistance.

KEYMAN

%KEYMAN-4-KEYSTR_CRYPTO_TYPE : Type [dec] encryption unknown. Interpreting keystring as literal

Explanation	The format type was not recognized by the system. A keystring format type value of 0 (unencrypted keystring) or 7 (hidden keystring), followed by a space, can precede the actual keystring to indicate its format. An unknown type value will be accepted, but the system will consider the keystring as being unencrypted.
Recommended Action	Use the correct format for the value type or remove the space following the value type

%KEYMAN-4-KEYSTR_BAD_CRYPTO : Bad encrypted keystring for key id [dec].

Explanation	The system could not successfully decrypt an encrypted keystring. The keystring may have been corrupted during system configuration.
Recommended Action	Re-enter the key-string command, and reconfigure the key string.

KEYSTORE

%KEYSTORE-3-IFS_OPEN_W : Failed to open file [chars] for writing software keystore. ([chars])

Explanation	An error occurred while opening a file for persistent storage. CTS keys could not be saved to persistent storage.
Recommended Action	

%KEYSTORE-3-IFS_WRITE : An error occurred while writing to the software keystore file.

Explanation	CTS keys could not be saved to persistent storage.
Recommended Action	

%KEYSTORE-3-IFS_OPEN_R : Failed to open file [chars] for reading software keystore. ([chars])

Explanation	An error occurred while opening the keystore file for reading. CTS keys could not be retrieved.
Recommended Action	

%KEYSTORE-3-IFS_READ : An error ([chars]) occurred while reading from the software keystore file.

Explanation	CTS keys could not be retrieved from persistent storage.
Recommended Action	

%KEYSTORE-3-BAD_MAGIC : Bad magic number [hex] in software keystore file [chars].

Explanation	Keystore data file appears to have been corrupted. Keys can not be retrieved from persistent memory.
Recommended Action	

%KEYSTORE-3-UNEXPECTED_EOF : Unexpected end of file while reading software keystore [chars].

Explanation	Keystore data file appears to have been truncated. One or more keys can not be retrieved from persistent memory.
Recommended Action	

%KEYSTORE-3-IPCPORT : Failed to create IPC port ([chars]) for keystore redundancy. [chars].

Explanation	An error was encountered when trying to create an IPC port. This means that any updates made to the ACTIVE keystore cannot be pushed to the STANDBY keystore.
Recommended Action	

%KEYSTORE-3-IPCOPEN : Failed to open IPC port to peer for keystore redundancy: [chars]

Explanation	An error was encountered when trying to open an IPC port for keystore redundancy messages. This means that any updates made to the ACTIVE keystore cannot be pushed to the STANDBY keystore.
Recommended Action	

%KEYSTORE-3-IPCNOCONN : No IPC communication path to peer available for keystore [chars].

Explanation	No IPC connection to the peer was available for keystore redundancy messages. This means that any updates made to the ACTIVE keystore cannot be pushed to the STANDBY keystore.

%KEYSTORE-3-IPCNOCONN : No IPC communication path to peer available for keystore [chars].

Recommended Action	

%KEYSTORE-3-IPCSEND : IPC send error ([chars]) while sending [chars].

Explanation	An error occurred while sending an IPC message to the peer during a keystore redundancy operation. This means that any updates made to the ACTIVE keystore cannot be pushed to the STANDBY keystore.
Recommended Action	

%KEYSTORE-3-ISSU_INCOMPAT : Standby incompatible for SSO.

Explanation	The image on the standby failed ISSU message version negotiation. As a result, we will not be able to sync keystore updates to it and so it is disallowed from reaching hot standby status in SSO mode.
Recommended Action	

%KEYSTORE-3-IPC_NO_PROC : Could not create a process to receive keystore redundancy messages.

Explanation	An error was encountered when trying to create a process to handle incoming keystore redundancy messages. This means that any updates made to the ACTIVE keystore cannot be pushed to the STANDBY keystore.
Recommended Action	

%KEYSTORE-3-NO_KEYSTORE : CTS hardware keystore is not responsive and software emulation is not enabled.

Explanation	The CTS hardware keystore on the switch has failed and needs to be inspected. Since CTS credentials are stored in the keystore, this means that CTS authentication and authorization operations will fail. The following action is recommended: If the defect is shown on the Active Supervisor, try to switchover to Standby Supervisor. If the defect is shown on Standby Supervisor, try to reset the Standby. If the defect persists, there may be damage to the hardware keystore chip, please take appropriate action. In the meantime, you can configure the switch to use software keystore emulation. After you have enabled software keystore emulation, please re-configure CTS credentials to populate the software keystore.
Recommended Action	

L2 through L2_CTRL

L2

%L2-4-NOMEM : Malloc failed: [chars] [dec]

Explanation	System is running out of memory
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2-4-QUEERR : Que Full Error: [chars] [chars]

Explanation	Can not enqueue due to lack of system resources
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2-4-NOBUF : Buffer alloc failed: [chars] [dec]

Explanation	System is running out of buffers
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2-3-DUP_REG : L2 Forwarding Engine: [chars] Attempt to program duplicate MAC address

Explanation	Attempt to program duplicate MAC address in the match registers
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

L2BD_PROXY

%L2BD_PROXY-3-L2BD_MEM_REQ_FAILED : L2BD IPC subtype: [dec]

Explanation	Requesting more memory failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2BD_PROXY-3-L2BD_MEM_EXTEND_FAILED : L2BD IPC subtype: [dec]

Explanation	Extending memory failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2BD_PROXY-4-PROXY_INVALID_MSG_LEN : QFP L2BD Proxy IPC invalid length, [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation	Cisco internal software error. QFP L2BD Proxy received invalid IPC message length from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2BD_PROXY-4-PROXY_INVALID_MSG : QFP L2BD Proxy received invalid message type [dec]

Explanation	Cisco internal software error. QFP L2BD Proxy received an invalid message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2BD_PROXY-2-PROXY_IPC_INIT_FAILED : QFP L2BD Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP L2BD Proxy initialization detected that the IPC interface initialization failed. QFP L2BD proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2BD_PROXY-3-PROXY_BAD_MSG : QFP L2BD Proxy received bad length message type [dec]

Explanation	Cisco internal software error. QFP L2BD Proxy received a corrupted message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2BD_PROXY-3-PROXY_IPC_ALLOC_FAILED : QFP L2BD Proxy [chars] message lost due to message buffer allocation failure.

Explanation	Cisco internal software error. QFP L2BD Proxy message processing detected a message buffer allocation failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2BD_PROXY-3-PROXY_IPC_SEND_FAILED : QFP L2BD Proxy [chars] message lost due to message sent failure (result: [dec]).

Explanation	Cisco internal software error. QFP L2BD Proxy message processing detected a message sent failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

L2CTRL

%L2CTRL-3-ADD_REGISTRY_FAILED : Subsystem [chars] fails to add callback function [chars]

Explanation	Other subsystem must have mistakenly add its own callback functions. This syslog is for debugging purpose.
Recommended Action	No action is required.

L2FIB

%L2FIB-3-BAD_PARAM : [chars]

Explanation	Invalid parameter
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2FIB-3-EVPN_ERROR : [chars]

Explanation	EVPN encap error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

L2TP

%L2TP-3-ILLEGAL : [chars]: [chars]

Explanation	An illegal event has been processed by the L2TP subsystem.
Recommended Action	No action is required.

%L2TP-3-CRITICAL : [chars]

Explanation	An critical event has been processed by the L2TP subsystem.
Recommended Action	No action is required.

%L2TP-5-IGNOREICMPMTU : Ignoring received ICMP Type 3 Code 4, due to pmtu min or max setting

Explanation	An ICMP Type 3 Code 4 (fragmentation needed and DF set) packet has been received. This packet has specified a Next-Hop MTU that is smaller or greater than the current minimum or maximum path MTU discovery mtu value. The ICMP packet has been ignored and the MTU has not been changed.
Recommended Action	If you want the ICMP packet to be accepted and used to decrease or increase the MTU then use the `vpdn pmtu min` command to decrease the minimum MTU allowed and enter the `vpdn pmtu max` command to increase the maximum MTU that is allowed. The minimum value specified is the minimum MTU that is allowed, and the maximum value specified is the maximum MTU that is allowed.

L2TP_HA

%L2TP_HA-3-SYNC : [chars]: code [dec]

Explanation	An error occurred when syncing L2TP state to the Standby Route Processor. This may affect Non-Stop Forwarding capability on L2TP-based interfaces during and after switchover until the state is recovered through normal protocol operation.

%L2TP_HA-3-SYNC : [chars]: code [dec]

Recommended Action	Reset the standby processor to attempt the sync again. LOG_STD_RECUR_ACTION

%L2TP_HA-3-ISSU : [chars]: [chars]

Explanation	A L2TP ISSU error occurred.
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

L2_AGING

%L2_AGING-4-ENTRY_DNLDFAIL : Slot [dec]: Download entries failed, reason [chars]

Explanation	Download of aging entries to linecard failed
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_AGING-4-MISSING_SLOTNO : Cannot get the slot to download l2 entries

Explanation	L2-AGING Download process error
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_AGING-4-INPROGRESS : Download already in progress to slot [dec]

Explanation	L2-AGING Download process error

%L2_AGING-4-INPROGRESS : Download already in progress to slot [dec]

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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_AGING-2-SPAWNFAIL : [chars] task spawn failed

Explanation	L2-AGING task spawn failed
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_AGING-0-CREATEQFAIL : Failed to create L2-AGING queue

Explanation	Linecards may have inconsistent info because of this
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_AGING-4-INVSLOT : Download to invalid slot [dec] requested

Explanation	L2-AGING internal error(lcc)
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_AGING-4-UNKMESG : [chars]: received unknown message [dec]

Explanation	Internal error -- maybe mismatch in image versions.
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_AGING-2-SIG_INST_FAIL : [chars]: Failed to install signal handler

Explanation	L2-AGING: A signal handler could not be installed for the process that involved Layer 2 aging
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

L2_API

%L2_API-5-RETADDR : Unsupported action.

Explanation	Internal error -- unsupported api invoked
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_API-5-SENDFAIL : ICC Send failed. Reason [chars]

Explanation	L2-API message send to linecards failed

%L2_API-5-SENDFAIL : ICC Send failed. Reason [chars]

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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_API-5-INVOPER : Invalid operation [dec]

Explanation	Invalid operation requested
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_API-5-INVADDR : Invalid static entry address computed. Offset [hex], rc [chars]

Explanation	Internal software error detected
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_API-5-MAC_REPLACE : Mac [enet], Vlan [dec] replaced with Mac [enet], Vlan [dec]

Explanation	A lower priority mac entry had to be removed from the MAC table in order to add an important mac entry
Recommended Action	No action is required.

L2_APPL

%L2_APPL-4-UNKMESG : Unknown received message [dec]

Explanation	Internal error -- maybe mismatch in image versions.

%L2_APPL-4-UNKMESG : Unknown received message [dec]

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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_APPL-0-TASK_SPAWN_FAIL : Failed to spawn task [chars]

Explanation	Spawn task failed.
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_APPL-5-MAC_USAGE : MAC usage for EARL [dec] is currently [dec]%%

Explanation	The utilization of the L2 Forwarding table of the Enhanced Address Recognition Logic is greater than threshold set by the user. The EARL Forwarding Table exceeding the utilization threshold and the current utilization are specified in the error message text.
Recommended Action	No action is required.

L2_CTRL

%L2_CTRL-4-UNKMESG : [chars]: unknown received message [dec]

Explanation	Internal error -- maybe mismatch in image versions.
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

L2_DIST_LRN through LAYER2_SVI

L2_DIST_LRN

%L2_DIST_LRN-4-NO_MEM : Malloc failed: [chars]

Explanation	System is running out of memory
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_DIST_LRN-4-NO_INIT : Initialization failed: [chars]

Explanation	Initialization of L2 Distributed Learning Failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_DIST_LRN-4-NO_MAC_RDRT : MAC redirect initialization failed: [chars]

Explanation	Initialization of MAC redirection failed

%L2_DIST_LRN-4-NO_MAC_RDRT : MAC redirect initialization failed: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_DIST_LRN-4-PAK_BLD_FAIL : [chars] Unable to build L2 Dist Lrn packet

Explanation	Unable to build L2 Dist Lrn packet
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_DIST_LRN-6-BUFFER_OVERRUN : Buffer Overrun: [chars]

Explanation	Too many new learns are being processed by L2 Dist Lrn
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_DIST_LRN-6-NO_PKT_SEND : Unable to send L2 Dist Lrn packet: [chars]

Explanation	Unable to send L2 Dist Lrn correction packet
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_DIST_LRN-6-NO_LRN : Unable to propogate L2 new learn at addr [hex]

Explanation	Temporary condition where a new Layer 2 Table entry cannot be propogated to other linecards
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

L2_MAC

%L2_MAC-4-ADDMACFAIL : User static MAC [enet] (vlan [dec]) cannot be installed. Reason: [chars]

Explanation	A user requested static MAC address cannot be installed
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

L2_MGR

%L2_MGR-4-BADVLAN_DNLDFAIL : Slot [dec]: Download Bad vlan failed, reason [chars]

Explanation	Download of data to linecard failed
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_MGR-4-ENTRY_DNLDFAIL : Slot [dec]: Download entries failed, reason [chars], entries [dec]/[dec]

Explanation	Download of static L2 entries to linecard failed
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_MGR-4-MISSING_SLOTNO : Cannot get the slot to download l2 entries

Explanation	L2-MGR Download process error

%L2_MGR-4-MISSING_SLOTNO : Cannot get the slot to download l2 entries

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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_MGR-4-INPROGRESS : Download already in progress to slot [dec]

Explanation	L2-MGR Download process error
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_MGR-2-SPAWNFAIL : [chars] task spawn failed

Explanation	L2-MGR task spawn failed
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_MGR-2-MGR_SPAWNFAIL : Failed to spawn L2-MGR task -- DFC linecards will affected

Explanation	Linecards may have inconsistent info because of this
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_MGR-4-INVSLOT : Download to invalid slot [dec] requested

Explanation	L2-MGR internal error(lcc)
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_MGR-4-UNKMESG : Unknown received message [dec]

Explanation	Internal error -- maybe mismatch in image versions.
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

L2_THROTTLE

%L2_THROTTLE-4-UNKMESG : Unknown received message [dec]

Explanation	Internal error -- maybe mismatch in image versions.
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2_THROTTLE-4-BLOCKFAIL : l2 throttle blocking task failed

Explanation	L2-THROTTLE blocking task failed
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

L4_INSPECT

%L4_INSPECT-3-INVALID_CHUNK_ID : Invalid chunk ID for protocol ([int])

Explanation	Failed to determine chunk ID for specified protocol. Unable to free CFT feature object.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LANMGR

%LANMGR-4-OLDTRAMON : Cannot run RPS on [chars], Old TRAMON code.

Explanation	The software on this interface cannot support the functions required for LAN Network Manager.
Recommended Action	Call your Cisco technical support representative about a firmware upgrade for this interface card.

%LANMGR-4-BADRNGNUM : Ring number mismatch on [chars], shutting down the interface

Explanation	The router detected a conflict in assigned ring numbers for the specified Token Ring. The Ring Parameter Server (RPS) function was shut down to prevent potentially incorrect information from being sourced onto the ring.
Recommended Action	Check all bridges connected to this Token Ring and ensure that they are using the same assigned ring number.

%LANMGR-4-BADUPCALL : Unexpected call ([chars]) from LLC2 for Bridge [hex]-[hex]-[hex]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%LANMGR-4-NORING : No ring info for [chars]

Explanation	An internal software error occurred.

%LANMGR-4-NORING : No ring info for [chars]

Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%LANMGR-2-NOMEMORY : No memory available: [chars]

Explanation	The requested operation failed because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

LAPB

%LAPB-3-NULLPAK : Interface [chars], NULL packet ptr, rvr [dec], vs [dec], vr [dec]

Explanation	An internal software error occurred.
Recommended Action	If either of these messages recur, call your technical support representative for assistance.

%LAPB-3-NOINPIDB : Input idb not set

Explanation	An internal software error occurred.
Recommended Action	If either of these messages recur, call your technical support representative for assistance.

%LAPB-4-FRAMEERR : Interface [chars], Frame error: CF [hex], VS [dec] %c VR [dec], Reason [hex]

Explanation	A FRMR frame was received, indicating that a protocol violation was detected. The Reason field will be interpreted by generating INFOBAD, CTRLBAD, N1TOOBIG, or INVNR messages immediately after this message; refer to the explanations for these messages for more information.
Recommended Action	The protocol will recover by resetting the service. This will disrupt any network service on top of LAPB (for example, X.25 virtual circuits will be cleared). Follow the recommended action for any error message following the FRMR reports; if service becomes unacceptable, check the serial line and its attached devices.

%LAPB-4-INFOBAD : Interface [chars], Info field not permitted

Explanation	A received FRMR frame reported that an information field was present in a frame where no information field is allowed.
Recommended Action	Check the serial line and the device attached to the line.

%LAPB-4-CTRLBAD : Interface [chars], Invalid control field

Explanation	A received FRMR reported a frame with an invalid control code.
Recommended Action	Check the serial line and the devices attached to the line.

%LAPB-4-N1TOOBIG : Interface [chars], N1 too large

Explanation	A received FRMR reported an information frame that was too long.
Recommended Action	Verify that the equipment attached to the serial line is configured with the same N1 value. N1 is in bits and includes the entire frame plus 16 bits of CRC. However, some equipment may require configuration in octets, the omission of the two CRC octets, or the omission of the three octets of LAPB control information.

%LAPB-4-INVNR : Interface [chars], Invalid NR value

Explanation	A received FRMR reported a frame with an invalid N(R) value.
Recommended Action	Verify that the equipment attached to the serial line is configured with the same K value (maximum number of outstanding I frames).

%LAPB-2-NOBUF : Interface [chars], no buffer available to [chars]

Explanation	There was insufficient memory for the LAPB protocol engine to send a message.
Recommended Action	This message is acceptable if it occurs infrequently, because the LAPB protocol is designed to handle loss of frames. Frequent occurrences can cause disruption of service. The system can be configured to ease memory demands or, if conditions warrant, the system can be upgraded to a larger memory configuration.

%LAPB-3-BADPAYLOAD : Interface [chars], Invalid payload value: [chars]

Explanation	An internal software error occurred.
Recommended Action	If either of these messages recur, call your technical support representative for assistance.

%LAPB-3-CONTEXTERR : [chars]: [chars]

Explanation	An internal software error occurred.
Recommended Action	If either of these messages recur, call your technical support representative for assistance.

%LAPB-3-TIMERERR : LAPB timer task cannot be created

Explanation	An internal software error occurred.
Recommended Action	If either of these messages recur, call your technical support representative for assistance.

LAT

%LAT-3-NOSYNC : Tty%t, Output data ptrs out of sync with byte count

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, contact your technical support representative.

%LAT-3-BADDATA : Tty%t, Data pointer does not correspond to current packet

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, contact your technical support representative.

%LAT-3-REUSE : Tty%t, Attempt to re-use slot array, empty = [dec], fill = [dec]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, contact your technical support representative.

%LAT-3-QBSPACED : Queue block at [hex] not found for HI connection

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, contact your technical support representative.

%LAT-3-BUFFULL : Tty%t, data buffer full with count [dec]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, contact your technical support representative.

%LAT-3-NULLIDB : Null IDB pointer with destination [enet]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, contact your technical support representative.

LAYER2_BRIDGE

%LAYER2_BRIDGE-3-INIT_FAILED : Initialization of the layer 2 bridging feature in QFP failed

Explanation	Initialization of the layer 2 bridging feature in the QFP failed. This indicates a software failure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LAYER2_BRIDGE-3-ALLOC_FAILED : Allocation of [chars] memory failed for layer 2 bridging feature in QFP

Explanation	Allocation of memory by the QFP layer 2 bridging feature microcode failed. The name of the memory chunk is specified in the message. This indicates a software failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LAYER2_BRIDGE-3-PKT_REPLICA_INIT_FAILED : Failed to register with generic packet replication for layer 2 bridging feature in QFP

Explanation	Layer 2 bridging initialization of packet replication registration failed.

%LAYER2_BRIDGE-3-PKT_REPLICA_INIT_FAILED : Failed to register with generic packet replication for layer 2 bridging feature in QFP

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LAYER2_BRIDGE-3-HA_INVALID_STATE : state [dec], MSGDEF_LIMIT_MEDIUM

Explanation	An invalid HA state was received from the HA infrastructure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LAYER2_BRIDGE-3-HA_BULK_SYNC_FAIL : rg [dec], MSGDEF_LIMIT_MEDIUM

Explanation	There was a failure such that Layer 2 bridge domain bulk sync did not occur
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LAYER2_SVI

%LAYER2_SVI-3-INIT_FAILED : Initialization of the SVI feature in QFP failed

Explanation	Initialization of the SVI feature in the QFP failed. This indicates a software failure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LAYER2_SVI-3-ALLOC_FAILED : Allocation of [chars] memory failed for SVI feature in QFP

Explanation	Allocation of memory by the QFP SVI feature microcode failed. The name of the memory chunk is specified in the message. This indicates a software failure

%LAYER2_SVI-3-ALLOC_FAILED : Allocation of [chars] memory failed for SVI feature in QFP

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LAYER2_SVI-3-PKT_REPLICA_INIT_FAILED : Failed to register with generic packet replication for SVI feature in QFP

Explanation	SVI initialization of packet replication registration failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LED through LLC

- LED
- LFD
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LED

%LED-3-VIDEO_SOURCE_CHANGE_FAILED : Video Multicast Source Switch Failed. Error [dec], Source ([hex], [hex]), LED [dec]

Explanation	Video Input Source failed to switch to the next sourcee.
Recommended Action	Check the failed input source, and check for service impact

%LED-3-CONSOLE_SETUP_FAILED : Failed to setup console service. It should be enabled on [chars]

Explanation	Setup of a console service failed. This is a possible cBR8 provisioning error.
Recommended Action	Check the host manager launch parameters and correct as required.

%LED-2-INIT_FAILED : Video LED process initialization failed id [int]

Explanation	Initialization of the Video LED process failed. This is an internal software error.
Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at:https://bst.cloudapps.cisco.com/bugsearch/. If you still require assistance, open a case with the Technical Assistance Center via the Internet athttps://mycase.cloudapps.cisco.com/case, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-VIPC_INIT_FAILED : VIPC initialization failed id [int]

Explanation	Initialization of the Video LED process failed. This is an internal software error.
Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at:https://bst.cloudapps.cisco.com/bugsearch/. If you still require assistance, open a case with the Technical Assistance Center via the Internet athttps://mycase.cloudapps.cisco.com/case, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-VDMAN_IPC_INIT_FAILED : Vidman IPC initialization failed id [int]

Explanation	Initialization of the Video LED process failed. This is an internal software error.
Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at:https://bst.cloudapps.cisco.com/bugsearch/. If you still require assistance, open a case with the Technical Assistance Center via the Internet athttps://mycase.cloudapps.cisco.com/case, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-ID_MISMATCH : LED ID mismatch Led id - [int], Instance - [int]

Explanation	This is an internal software error.

%LED-2-ID_MISMATCH : LED ID mismatch Led id - [int], Instance - [int]

Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at:https://bst.cloudapps.cisco.com/bugsearch/. If you still require assistance, open a case with the Technical Assistance Center via the Internet athttps://mycase.cloudapps.cisco.com/case, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-RESOURCE_ALLOCATION : Failed to Allocate memory, Led id [int]

Explanation	This is an internal software error.
Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at:https://bst.cloudapps.cisco.com/bugsearch/. If you still require assistance, open a case with the Technical Assistance Center via the Internet athttps://mycase.cloudapps.cisco.com/case, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-INVALID_PSI_TYPE : Invalid PSI type, Led id [int]

Explanation	This is an internal software error.
Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at:https://bst.cloudapps.cisco.com/bugsearch/. If you still require assistance, open a case with the Technical Assistance Center via the Internet athttps://mycase.cloudapps.cisco.com/case, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-DB_HA_ERROR : Database HA Error, Led id [int]

Explanation	This is an internal software error.
Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at:https://bst.cloudapps.cisco.com/bugsearch/. If you still require assistance, open a case with the Technical Assistance Center via the Internet athttps://mycase.cloudapps.cisco.com/case, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-OUT_OF_CONTEXT_ERROR : LED Fell out of context loop, Led id [int]

Explanation	This is an internal software error.

%LED-2-OUT_OF_CONTEXT_ERROR : LED Fell out of context loop, Led id [int]

Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at:https://bst.cloudapps.cisco.com/bugsearch/. If you still require assistance, open a case with the Technical Assistance Center via the Internet athttps://mycase.cloudapps.cisco.com/case, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-GQILIB_INIT_FAILED : Failed to init GQI Lib, Led id [int]

Explanation	This is an internal software error.
Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at:https://bst.cloudapps.cisco.com/bugsearch/. If you still require assistance, open a case with the Technical Assistance Center via the Internet athttps://mycase.cloudapps.cisco.com/case, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-TBLLIB_INIT_FAILED : Failed to init Table-based Lib, Led id [int]

Explanation	This is an internal software error.
Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at:https://bst.cloudapps.cisco.com/bugsearch/. If you still require assistance, open a case with the Technical Assistance Center via the Internet athttps://mycase.cloudapps.cisco.com/case, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-VIPC_SEND_FAILURE : VIPC send failed, Led id [int]

Explanation	This is an internal software error.
Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at:https://bst.cloudapps.cisco.com/bugsearch/. If you still require assistance, open a case with the Technical Assistance Center via the Internet athttps://mycase.cloudapps.cisco.com/case, or contact your Cisco technical support representative and provide the representative with the gathered information.

LFD

%LFD-3-CHUNKMGRALLOC : failed chunk alloc: [chars]

Explanation	Chunk alloc() failed

%LFD-3-CHUNKMGRALLOC : failed chunk alloc: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-CHUNKMGRDEALLOC : failed chunk dealloc: [chars]

Explanation	Chunk free() failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-UPDATEHANDLERFPI : No handler installed: fpi=[dec] handler type=[chars]

Explanation	No handler installed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-UPDATEHANDLER2 : [chars] [hex] [hex]

Explanation	Error in update handler
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-UPDATEHANDLER3 : [chars] [hex] [hex] [hex]

Explanation	Error in update handler
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-4-NOFIBIDB : [chars] - ifnum [dec]

Explanation	fibidb missing on linecard
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-REWMGR : Rewrite Manager: [chars] [hex]

Explanation	Rewrite Manager error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-REWMGR2 : [chars] [hex] [hex]

Explanation	Rewrite lookup failed due to FPI inconsisency
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-FPIHANDLER : LFD SSS Handler: [chars]

Explanation	Error in fpi handler
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-2-FPIHANDLER3 : [chars] [hex] [hex] [hex]

Explanation	FPI Handler error

%LFD-2-FPIHANDLER3 : [chars] [hex] [hex] [hex]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-NULLFIBIDB : NULL FIB IDB: [chars] [dec]

Explanation	NULL FIB IDB encountered
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-NULLADJACENCY : NULL Adjacency

Explanation	NULL adjacency encountered
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-FPITYPEWRONG : Require fpi type [chars], get fpi type [chars]

Explanation	Unmatched FPI type
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-4-UNSUPPORTEDRW : Unexpected rewrites seen where MPLS is not supported by platform for this slot

Explanation	MPLS is either not needed or not handled by the platform for this card and should not handle rewrites
Recommended Action	No action is required.

%LFD-3-NORESOURCE : [chars] [dec]

Explanation	Resource Failure: %s %d
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-6-RESOURCE : [chars]

Explanation	MPLS software is disabled on LC
Recommended Action	No action is required.

%LFD-3-LTABLEMEM : Cannot allocate new mpls table [dec] of size [dec] needed for entry [dec]

Explanation	Not enough contiguous memory for mpls forwarding table
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%LFD-3-SM : [chars] [dec]

Explanation	State Machine error: %s %d
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-SMBADEVENT : Unexpected event [chars] for state [chars]

Explanation	The LFD received an unexpected event for its state. The state of the LFD, and the unexpected event, are specified in the message text.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-BADEXEC : Unexpected Code Execution: [chars] [dec]

Explanation	Unexpected Code Execution
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-EVTLOGBADSOURCE : Illegal log event source: [dec]

Explanation	Illegal event found in log buffer
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-2-AVL : [chars] [hex]

Explanation	AVL tree operation error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-CHUNKMGR : chunk mgr: [chars] [hex]

Explanation	Chunk manager error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INTFDB : intf db: [chars] [hex]

Explanation	Interface db error

%LFD-3-INTFDB : intf db: [chars] [hex]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INTFDB2 : intf db: [chars] [hex] [hex]

Explanation	Interface db error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-BADFRRTYPE : illegal frr type: [dec]

Explanation	FRR request type error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-4-OWNCHANGED : Owner changed for [chars] [dec]/[dec] from [dec] to [dec]

Explanation	Label was previously installed by different installer
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INVPLISTTYPE : Wrong plist_type expected [dec] for [dec]/[dec] update (was [dec])

Explanation	Rewrite PLISTTYPE invalid for non-ip label table entry
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INVRWID : Wrong rwid [dec] for non-ip LTE [dec]/[dec]

Explanation	Rewrite ID invalid for non-ip label table entry
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INVLABELTYPE : Wrong label type [dec] for non-ip LTE [dec]/[dec]

Explanation	Label type invalid for non-ip label table entry
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INVIPLABELTYPE : Wrong label type [dec] for IP Label [dec], table [dec] prefix [chars], vrf [chars]

Explanation	Label type is invalid for the indicated label table entry
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of `show version` and `show running-config` and contact your Cisco technical support representative.

%LFD-3-INVPLIST : Wrong path list type [dec] for label [dec]/[dec] [chars]

Explanation	The path list type is set incorrectly for the label in question
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-BADSHORTLABELADD : Cannot add short label: path_idx [dec], moi_type [dec]

Explanation	Unable to create MFI feature space in FIB entry, so unable to store short path extension information there.

%LFD-3-BADSHORTLABELADD : Cannot add short label: path_idx [dec], moi_type [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-BADLABELADD : Cannot add label - [chars].

Explanation	Unable to create label due to reason given.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INVPATHLBL : [chars] [chars]

Explanation	An invalid outgoing label is attached to the prefix
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of `show version` and `show running-config` and contact your Cisco technical support representative.

%LFD-3-NOOCE : Attempt to get labels from OCE failed - [chars].

Explanation	Calling function has provided insufficient information to get labels.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-XDRBADMAGIC : xdr message for [chars] spilled out of allocated static storage

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-UNSUPPORTED_XDR : [chars]

Explanation	Decoding of an XDR message revealed data or format that is unsupported in the current release.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-BROKERINITFAIL : Failed to initialise lte RP broker facility

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-LCXDRCLIENT : LTE distribution client: [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-NONIPINFO : Non-ip info: [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-RPXDRCLIENT : Invalid XDR Client: [chars]

Explanation	An internal software error occurred.

%LFD-3-RPXDRCLIENT : Invalid XDR Client: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-ORPHANLTE : Label [dec]/[dec], plist [dec], LDM: [hex]

Explanation	The LTE for the label was supposed to be deleted, but is still present
Recommended Action	Collect the running configuration and output of **show mpls forwarding-table labels *label-num*** command and contact cisco technical service representative.

%LFD-3-RUNNING_TIMER : [chars] [dec] [chars] [dec]

Explanation	The MPLS forwarding entry for the specified label was deleted prior to the expiry of its associated timer
Recommended Action	If there is no matching bug for this problem, please collect the output of **show mpls forwarding-table label <label> internal** and the error message traceback and file a bug report.

%LFD-3-INVLABELUPDTYPE : Wrong label type [dec] for label [dec] table [dec] [chars] [chars]

Explanation	An invalid Label type was encountered during the specified operation
Recommended Action	If there is no matching bug for this problem, please collect the output of **show mpls forwarding-table label <label> internal** and the error message traceback and file a bug report.

%LFD-3-KEY_DB_INSERTFAIL : [chars], entry [hex], existing [hex]

Explanation	The element could not be inserted into the LFD's key database.
Recommended Action	If there is no matching bug for this problem, please collect the output of **show mpls forwarding-table internal** and the error message traceback and file a bug

%LFD-3-FIB_SRC : Label [[dec]/[dec]] [chars] [chars] [chars]

Explanation	The fib entry could not be sourced for label in question.
Recommended Action	If there is no matching bug for this problem, please collect the output of **show mpls forwarding-table internal** and **show ip route [vrf <name>] <prefix>** and the error message traceback and file a bug

%LFD-4-FIB_SRC1 : Label [[dec]/[dec]] [chars] [chars] [chars]

Explanation	The fib entry could not be sourced for label in question.
Recommended Action	If there is no matching bug for this problem, please collect the output of **show mpls forwarding-table internal** and **show ip route [vrf <name>] <prefix>** and the error message traceback and file a bug

%LFD-3-OCE_CHAIN : [chars]

Explanation	NULL OCE in chain
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-UNSUPPORT_OCE : Not support - [chars] [dec]

Explanation	Unsupported OCE
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-CORRUPTED_PKT : [chars]

Explanation	lfd received corrupted packet
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-4-RE_ENTRANT : Re-entrancy detected: [chars]

Explanation	lfd non ip recalculation has re-entrancy
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-LABEL_BLOCK_CHUNK : [chars]

Explanation	lfd label block chunk entry corrupted
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INVPEXTLEN : [chars] path ext : attempt to decode beyond XDR buffer, cp [hex], cp_end [hex], msg_type [dec], msg_size [dec], padding [dec]

Explanation	Accessing memory beyond XDR buffer length while decoding path extensions
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-FIBIPINVALID : [chars], table: [dec] label: [dec]

Explanation	IP path information is invalid for the indicated label table entry
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-FIBIPINVALIDAF : AF: [dec] [chars], table: [dec] label: [dec]

Explanation	IP path information AF is invalid for the indicated label table entry
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-FIBNONIPINVALID : [chars], table: [dec] label: [dec]

Explanation	Non IP path information is invalid for the indicated label table entry
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-PATHEXTENCODE : [chars] [chars], path list: [IPV6 address], path ext: [IPV6 address]

Explanation	MPLS path extensions could not be encoded for distribution
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

LI

%LI-3-MEM_INIT_FAILED : Allocation of [chars] memory failed for LI

Explanation	LI Initialization of channel pool failed.
Recommended Action	LOG_STD_ACTION

%LI-3-PKT_REPLICA_INIT_FAILED : Register to Generic Packet Replication failed for LI

Explanation	LI Initialization of packet replication registration failed.
Recommended Action	LOG_STD_ACTION

LICENSING

%LICENSING-6-LIC_MISMATCH : Configured license image level [chars] does not match the current level [chars]. Reload is required to bring the system up in [chars]

Explanation	During boot-up of system, the configured license image level might mismatch with the current level. This could happen when customer copy a different startup-config to the system.

%LICENSING-6-LIC_MISMATCH : Configured license image level [chars] does not match the current level [chars]. Reload is required to bring the system up in [chars]

Recommended Action	Reload is required to bring the system up in the configured license image level.

LIIN

%LIIN-3-VRFADD_FAIL : Problem creating vrf

Explanation	The LIIN config process failed to allocate a mandatory iVRF. The LIIN interface will not operate properly and cannot be recovered. Persistent access features and interactive commands will not work.
Recommended Action	LOG_STD_ACTION

%LIIN-3-VRFMODIFY_FAIL : Problem adding LIIN interface to vrf table

Explanation	The LIIN config process failed to assign the LIIN interface to its mandatory iVRF. The LIIN interface will not operate properly and cannot be recovered. Persistent access features and interactive commands will not work.
Recommended Action	LOG_STD_ACTION

%LIIN-3-SET_TABLEID_FAIL : Installing [chars] LIIN interface tableid failed

Explanation	This error happens when IOS failed to set tableid into linux kernel, possibly due to either IOSd or kernel out of memory or corruption. In this case, LIIN interface will not have VRF installed for the associated address family. The LIIN interface will not operate properly and cannot be recovered. Persistent access features and interactive commands will not work.
Recommended Action	LOG_STD_ACTION

%LIIN-3-SET_ACCESS_FAIL : Installing LIIN interface access control failed

Explanation	This error happens when IOS failed to set the access control function for the LIIN, possibly due to IOSd out of memory or corruption. In this case, LIIN interface setup will not proceed, will not operate properly and cannot be recovered. Persistent access features and interactive commands will not work.
Recommended Action	LOG_STD_ACTION

%LIIN-6-TELNET_ALLOWED : Telnet access allowed due to romvar: SR_INIT_SHELL

Explanation	Telnet from shell to IOS allowed because rommon variable SR_INIT_SHELL is set with value aux_do_system_shell. Remove this value from SR_INIT_SHELL or unset SR_INIT_SHELL to disable the telnet access
Recommended Action	No action is required.

LINEPROTO

%LINEPROTO-5-UPDOWN : Line protocol on Interface [chars], changed state to [chars]

Explanation	The data link level line protocol changed state.
Recommended Action	No action is required.

LINK

%LINK-4-NOMAC : A random default MAC address of [enet] has been chosen. Ensure that this address is unique, or specify MAC addresses for commands (such as 'novell routing') that allow the use of this address as a default.

Explanation	An addressing inconsistency occurred.
Recommended Action	Make sure that this address is unique, or specify MAC addresses for commands such as novell routing that allow the use of this address as a default.

%LINK-4-NOSSB : SSB deleted with timer running

Explanation	An internal software error occurred. Problem has been corrected, and router operation has not been impaired.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-2-NOSOURCE : Source idb not set

Explanation	An internal software error occurred.

%LINK-2-NOSOURCE : Source idb not set

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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-2-LINEST : No linestate vector for [chars]

Explanation	An internal software inconsistency occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-5-CHANGED : Interface [chars], changed state to [chars]

Explanation	The interface hardware changed state.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-UPDOWN : Interface [chars], changed state to [chars]

Explanation	The interface hardware went either up or down.
Recommended Action	If the state change was unexpected, confirm the configuration settings for the interface.

%LINK-4-TOOBIG : Interface [chars], Output packet size of [dec] bytes too big

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-TOOSMALL : Interface [chars], Output runt packet of [dec] bytes

Explanation	An output packet was detected that was smaller than the minimum allowable datagram size. An error in another driver or an error in the system software probably triggered this error message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-BADMACREG : Interface [chars], non-existent MACADDR registry for link [dec]

Explanation	An attempt to map a network level address to a MAC level address failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-BADENCAP : Interface [chars], Bad encapsulation code ([dec])

Explanation	The lower level software was unable to write a MAC header for a datagram. A probable cause is configuration error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-2-BADVCALL : Interface [chars], undefined entry point

Explanation	An internal software error occurred. The high-level system code tried to use an unimplemented entry point with the virtual interface descriptor block (IDB) driver.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-2-INTVULN : In critical region with interrupt level=[dec], intfc=[chars]

Explanation	An internal software error occurred. The high-level system code tried to call this routine with interrupts enabled.

%LINK-2-INTVULN : In critical region with interrupt level=[dec], intfc=[chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-0-REENTER : Fatal reentrancy, level=[dec], intfc=[chars]

Explanation	An internal software error occurred. The system code tried to access a critical data structure which was already in use.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-5-BOOTP : [chars] address [IP_address], resolved by [IP_address]

Explanation	An interface's IP address was successfully learned dynamically through BootP. The first address is the learned IP address. The second IP address is the IP address of the BootP server that provided the information.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-5-RARP : [chars] address [IP_address], resolved by [IP_address]

Explanation	The Reverse Address Resolution Protocol (RARP) resolved an IP address.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-5-SLARP : [chars] address [IP_address], resolved by [IP_address]

Explanation	The Serial Line Address Resolution Protocol (SLARP) resolved an IP address.

%LINK-5-SLARP : [chars] address [IP_address], resolved by [IP_address]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-4-FDDISTAT : Interface [chars], FDDI state [chars] detected

Explanation	There was a state change on the FDDI ring.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-4-BRIDGECONFLICT : Interface [chars], encapsulated BPDU recvd from [enet]

Explanation	An FCIT running in nonencapsulating transparent mode detected an FDDI bridge running in encapsulation mode on the same fiber. This is an unstable situation and should be corrected. The incoming interface is displayed, along with the FDDI MAC address in standard form.
Recommended Action	Upgrade the errant interface to full transparent mode. Copy the error message exactly as it appears, and report it to your Cisco technical support representative.

%LINK-5-REMLOOP : Interface [chars], remote loop [chars] [chars]

Explanation	The interface entered or exited a remote loopback.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-5-LOOPSTATUS : Interface [chars], [chars]

Explanation	The interface entered or exited loopback.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-6-BERTSTATUS : Interface [chars], [chars]

Explanation	BERT is completed for this interface.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-6-BERTMSGS : [chars]

Explanation	BERT related information messages.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-COMPREG : Interface [chars], non-existent (de)compression registry. Packet dropped

Explanation	A software or hardware error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-BOGUSENCAP : msgtxt_badencap

Explanation	A serial interface has been configured with an unknown encapsulation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-4-BADQID : Interface [chars], bad output queue ID specified ([dec]). Packet dropped

Explanation	This message indicates an internal software error.

%LINK-4-BADQID : Interface [chars], bad output queue ID specified ([dec]). Packet dropped

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-EMPTYPAK : Interface [chars], empty packet dequeued; linktype [dec], queue [dec].

Explanation	This message indicates an internal software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-IDBLISINS : Not able to insert interface [chars] into [chars] list

Explanation	This message indicates an internal software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-IDBLISCRE : Unable to create [chars] interface list

Explanation	This message indicates an internal software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-LINK_FAULT : [chars] [chars] [chars] [chars]

Explanation	The link state for the port is down
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-FCS_ERROR : [chars] [chars] [chars] [chars]

Explanation	The FCS Error rate exceeds the configured threshold
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LISP_PROXY

%LISP_PROXY-3-PROXY_IPC_INIT_FAILED : lisp proxy init failed, rc = [dec]

Explanation	IPC handler initialization failed.
Recommended Action	LOG_STD_ACTION

%LISP_PROXY-4-PROXY_IPC_INVALID_MSG : invalid lisp proxy msg [dec]

Explanation	Received an invalid IPC messages subtype.
Recommended Action	LOG_STD_ACTION

%LISP_PROXY-3-PROXY_IPC_PACKET_ALLOCATION_FAILED : lisp proxy alloc reply pak failed

Explanation	Failed to allocate packet buffer for IPC
Recommended Action	LOG_STD_ACTION

%LISP_PROXY-3-PROXY_IPC_PACKET_SEND_FAILED : lisp proxy send failed, rc = [dec]

Explanation	Failed to send IPC packet.
Recommended Action	LOG_STD_ACTION

%LISP_PROXY-3-PROXY_IPC_REQUEST_MSG_INVALID : lisp proxy request msg invalid.

Explanation	Failed to get lisp default entry stats req from IPC packet.
Recommended Action	LOG_STD_ACTION

%LISP_PROXY-3-PROXY_IPC_GET_STATS_FAILED : lisp proxy get stats failed for type[[chars]] idx = [dec], ppe_addr[[hex]].

Explanation	Getting lisp default entry stats failed.
Recommended Action	LOG_STD_ACTION

LI_CORE

%LI_CORE-2-EGRESS_INTF_NO_GLOB_IPV6_ADDR : LI host address configured is IPv6, but no global IPv6 address configured on egress interface [chars]

Explanation	At least one local IPv6 global/routable address is needed to reach the LI host server
Recommended Action	If this message occurs, at least one IPv6 global address needs to be configured on the egress interface towards the LI host server.

%LI_CORE-2-EGRESS_INTF_NOT_SVI : Not supported: egress interface ([chars]) towards LI host [chars] is not an SVI

Explanation	Egress interface to reach the LI host is restricted to be an SVI
Recommended Action	If this message occurs, the egress interface towards the LI host server needs to be configured as an SVI

LLC

%LLC-2-UNEXPECT : LLC2: [chars] UNEXPECTED EVENT

Explanation	An internal software error was found. A software component is trying to use LLC2 structures that do not exist.
Recommended Action	Record the configuration and any information that would be useful in recreating the error and call your technical support representative.

LLDP through LSD_HA

- LNMC
- LOADBALANCE_TRACE_MESSAGE
- LOGGER
- LSD
- LSD_CLIENT
- LSD_HA

LLDP

%LLDP-4-LLDP_NEW_ENTRY : Neighbor record not committed - malloc failure

Explanation	LLDP entry creation failed
Recommended Action	Run memory diagnostics

LLIST

%LLIST-3-ONLIST : [chars] to [hex], [hex] on list

Explanation	An internal inconsistency was detected when an attempt was made to add an item to a list already on the list.
Recommended Action	Copy the message exactly as it appears and report it to your technical service representative.

%LLIST-3-OFFLIST : [chars] from [hex], [hex] not on list

Explanation	An internal inconsistency was detected when an attempt was made to remove an item from a list not on the list.
Recommended Action	Copy the message exactly as it appears and report it to your technical service representative.

LMLIB_RTU_LICENSE

%LMLIB_RTU_LICENSE-4-EVAL_WARN : Evaluation period of [chars] license is about to expire in [dec] days. Purchase a permanent license.

Explanation	The evaluation license is about to expire.
Recommended Action	Purchase a permanent license.

%LMLIB_RTU_LICENSE-4-TERM_WARN : Subscription term period of [chars] license is about to expire in [dec] days. Please renew your license.

Explanation	The subscription license is about to expire.
Recommended Action	Renew your subscription license.

%LMLIB_RTU_LICENSE-1-EVAL_EXP : Evaluation period of [chars] license expired [dec] days ago. Purchase a permanent license.

Explanation	The evaluation license has expired.
Recommended Action	Purchase a permanent license.

%LMLIB_RTU_LICENSE-1-TERM_EXP : Subscription term period of [chars] license expired [dec] days ago. Please renew your license.

Explanation	The subscription license has expired.
Recommended Action	Renew your subscription license.

%LMLIB_RTU_LICENSE-6-AP_ADD : [dec] adder AP-count licenses are added

Explanation	AP-count licenses have been added.
Recommended Action	More APs can be supported.

%LMLIB_RTU_LICENSE-1-EXCESS_AP_LIC : Total AP-count licenses available have exceeded the maximum supported AP-count by [dec].

Explanation	The number of AP-count licenses available is greater than the maximum number of supported AP-count.
Recommended Action	The extra AP-count licenses can be moved to another controller.

%LMLIB_RTU_LICENSE-1-AP_USAGE_EXCEEDED : AP-count license usage has exceeded the available AP-count by [dec].

Explanation	AP-count license usage has exceeded the available AP-count.
Recommended Action	Remove the excess APs from the controller.

%LMLIB_RTU_LICENSE-1-AP_INSUFFICIENT_PERM_APCOUNT : APs connected exceed the permanent licenses available by [dec].

Explanation	The number of APs connected is greater than the number of permanent licenses.
Recommended Action	Purchase adder licenses to add to your existing permanent licenses.

%LMLIB_RTU_LICENSE-6-AP_DEL : [dec] adder AP-count licenses are removed.

Explanation	AP-count licenses have been removed.
Recommended Action	Fewer APs are supported.

%LMLIB_RTU_LICENSE-6-LIC_INVALID_DEACT : [chars] license is not active on [chars] therefore, it cannot be

Explanation	The license level is not activated.
Recommended Action	No need to deactivate this license.

%LMLIB_RTU_LICENSE-6-LIC_ACT : [chars] license is activated successfully on [chars].

Explanation	The license level is activated.
Recommended Action	Reboot the switch to invoke the activated license.

%LMLIB_RTU_LICENSE-6-LIC_ACTVED : [chars] license was already activated.

Explanation	The license level was already activated.
Recommended Action	Reboot the switch to invoke the activated license.

%LMLIB_RTU_LICENSE-6-LIC_EXPED : [chars] evaluation license has expired you cannot activate it again.

Explanation	You cannot use an expired evaluatoin license.
Recommended Action	Purchase a permanent license level or activate another license level.

%LMLIB_RTU_LICENSE-6-LIC_EVAL_TO_PERM : License level upgraded from [chars] [chars] to [chars] [chars]

Explanation	A license has been upgraded to a permanent or subscription license. A reboot is NOT required for the new license level to be effective.
Recommended Action	No action is required

%LMLIB_RTU_LICENSE-6-LIC_CHANGE : [chars] reboot license level changed from [chars] to [chars]. Reboot the switch to invoke the new license level.

Explanation	Reboot license level has been changed.
Recommended Action	Reboot the switch to invoke the activated license level.

%LMLIB_RTU_LICENSE-6-LIC_EULA_CLEAR : EULA for [chars] license has been cleared on [chars].

Explanation	License level has been deactivated.
Recommended Action	The end user license agreement (EULA) needs to be accepted while activating this license level.

%LMLIB_RTU_LICENSE-3-FILE_ERR : [chars]: License file update failed. Reapply the configuration.

Explanation	Failed to update the license file.
Recommended Action	Reapply the configuration.

%LMLIB_RTU_LICENSE-3-FILE_READ_ERR : [chars]: License file read failed.

Explanation	Failed to read the license file.
Recommended Action	Reapply the configuration.

%LMLIB_RTU_LICENSE-6-LIC_INCOMPAT : Switch [dec] has an incompatible license level. Activate a compatible license on the switch so that the switch can join the stack.

Explanation	The added switch has an incompatible license level.
Recommended Action	Activate a new license and reboot the switch.

%LMLIB_RTU_LICENSE-6-PLAT_INCOMPAT : Switch [dec] has an incompatible platform level. Activate a compatible platform on the switch so that the switch can join the stack.

Explanation	The added switch has an incompatible platform level.
Recommended Action	Run in compatible scaled mode and reboot the switch.

%LMLIB_RTU_LICENSE-1-SKU_INCOMPAT : Both the switches in the stack are AIR-CT5760-HA-K9 SKUs. Replace one of the switches with another Catalyst 5760 SKU running valid AP License Count

Explanation	Two AIR-CT5760-HA-K9 SKUs are not supposed to stack.
Recommended Action	Replace the license mismatch switch with a Catalyst 5760 SKU running valid AP License Count.

%LMLIB_RTU_LICENSE-1-PRIMARY_REMOVED : The current stack does not support the applied AP License Count. Reconnect a Catalyst 5760 SKU running valid AP License Count within 90 days.

Explanation	AIR-CT5760-HA-K9 does not support the same licensing as AIR-CT5760-HA-K9. So an AIR-CT5760-HA-K9 SKU is needed in the stack to support this licensing.
Recommended Action	Reconnect a Catalyst 5760 SKU running valid AP License Count within 90 days.

%LMLIB_RTU_LICENSE-1-RTU_DISABLED : Cannot proceed. Right-to-use Licensing is diabled. Switch is in Smart Licensing mode.

Explanation	RTU functionality is disabled when switch in SL mode.
Recommended Action	Enable RTU licensing with CLI: no license smart enable.

%LMLIB_RTU_LICENSE-6-ENABLE_RTU : [chars]: Right-to-use Licensing is enabled. Switch is in RTU mode.

Explanation	User configures RTU licensing by disabling Smart Licensing.
Recommended Action	Configure image license and ap count license if needed.

%LMLIB_RTU_LICENSE-6-DISABLE_RTU : [chars]: Right-to-use Licensing is disabled. Switch is in Smart Licensing mode.

Explanation	User enables Smart Licensing.
Recommended Action	Request image license license if needed.

%LMLIB_RTU_LICENSE-6-IOSD_LIC_MISMATCH : Switch #[dec]: Current IOSd runs on [chars] license while RTU active license is [chars]. Please configure RTU license to current IOSd license.

Explanation	When customer switches license mode from Smart Licensing to RTU Licensing, current IOSd license might mismatch with RTU active license.
Recommended Action	Configure RTU license level to current IOSd license.

%LMLIB_RTU_LICENSE-6-LIC_IMAGE_INVALID : Switch #[dec]: The license boot level string is invalid. Boot up with the highest activated license.

Explanation	The license boot level string is invalid. The RTU highest activated license is used.
Recommended Action	Use 'license boot level' to configure a valid license level

%LMLIB_RTU_LICENSE-6-FACTORY_DEFAULT_ERROR : Factory Default License File [chars] on [chars].

Explanation	An error occured when trying to create the factory default file.
Recommended Action	Fix the issue and try again.

LMRP

%LMRP-0-CHASFS_LOCATION_TRANSLATE : Failed to translate a location to a chasfs object name because [chars]

Explanation	The license manager failed to translate a location to a chasfs object name.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_OBJECT_CREATE : Failed to create chassis filesystem object [chars] because [chars]

Explanation	The hardware failed to create a chassis filesystem object.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_PROPERTY_CREATE : Failed to create chassis filesystem object [chars] property [chars] because [chars]

Explanation	A chassis filesystem property was not properly created.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_PROPERTY_GET : Failed to read chassis filesystem object [chars] property [chars] because [chars]

Explanation	A chassis filesystem property was not properly read by the system.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_PROPERTY_SET : Failed to write chassis filesystem object [chars] property [chars] because [chars]

Explanation	A chassis filesystem property failed to write.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-RESOLVE_FRU : Failed to determine [chars] card because [chars]

Explanation	The router failed to determine a FRU state.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-EVENT_LIBRARY : An event facility initialization or maintenance function failed because [chars]

Explanation	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-PEER_TABLE : A peer table initialization or maintenance function failed because [chars]

Explanation	A peer table initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-3-PEER_INVALID : A peer table entry has invalid state.

Explanation	A peer table entry has an invalid state. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-UIPEER_CREATE : Failed to create user interface peer.

Explanation	The system failed to create a user interface peer.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-SLOTS_INITIALIZATION : Failed to initialize chassis slot information because [chars]

Explanation	The system failed to initialize the chassis slot information.

%LMRP-0-SLOTS_INITIALIZATION : Failed to initialize chassis slot information because [chars]

Recommended Action	Note the time of the error message and examine the logs for IDPROM or software errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-SIGNAL_INITIALIZATION : Failed to initialize signals because [chars]

Explanation	The system failed to initialize signals.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-SERVICES_INITIALIZATION : Failed to initialize general application services because [chars]

Explanation	The system failed to initialize application services.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-MESSAGE_REGISTER : Failed to register with active RP because [chars]

Explanation	The active RP failed to register.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-MESSAGE_RESPONSE : An invalid message response was received because [chars]

Explanation	An invalid message response was received. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASSIS_TYPE : The chassis type [chars] is invalid.

Explanation	The chassis type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.
Recommended Action	Note the time of the error message and examine the logs for IDPROM and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-PLATFORM_FAMILY_TYPE : The platform family type [chars] is invalid.

Explanation	The platform family type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.
Recommended Action	Note the time of the error message and examine the logs for IDPROM and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASSIS_STATUS : Failed to get chassis hardware status because [chars]

Explanation	The system failed to get the chassis hardware status.
Recommended Action	Note the time of the error message and examine the logs for CPLD driver or hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-3-CHASFS_OBJECT_DESTROY : Failed to destroy chassis filesystem object [chars] because [chars]

Explanation	A chassis filesystem object that should have been destroyed was not destroyed.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-3-CHASFS_PROPERTY_DESTROY : Failed to destroy chassis filesystem proprty [chars]/[chars] because [chars]

Explanation	A chassis filesystem property that should have been destroyed was not destroyed.

%LMRP-3-CHASFS_PROPERTY_DESTROY : Failed to destroy chassis filesystem proprty [chars]/[chars] because [chars]

Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_OBJECT_WATCH : Failed to watch chassis filesystem object [chars] because [chars]

Explanation	A chassis filesystem object was not watched because of the reason stated in the error message.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_OBJECT_NOT_PRESENT : Expected chassis filesystem object [chars] not present.

Explanation	A chassis filesystem object expected to be present is not. This could be due to a software defect or filesystem failure.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_PROPERTY_NOT_PRESENT : Expected chassis filesystem object [chars] property [chars] not present.

Explanation	A chassis filesystem object property expected to be present is not. This could be due to a software defect or filesystem failure.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-INVALID_ARGUMENT : A system function was given an invalid argument.

Explanation	A system function was given an invalid argument. This is due to a software defect.

%LMRP-0-INVALID_ARGUMENT : A system function was given an invalid argument.

Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-SLOT_INVALID : A card absolute slot number cannot be determined for this chassis type

Explanation	An absolute slot number is invalid. This could be due to a software defect or incorrect IDPROM content.
Recommended Action	Note the time of the error message and examine the logs for IDPROM or software errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-IPC_INITIALIZATION : IPC initialization failed because [chars]

Explanation	IPC initialization failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-IPC_CONNECT_MASTER : IPC connection to the active RP failed because [chars]

Explanation	IPC connection to the active RP failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-IPC_CONNECTION_INVALID : An IPC connection has invalid state.

Explanation	An IPC connection has an invalid state. This could be due to a software defect or system resource exhaustion.

%LMRP-0-IPC_CONNECTION_INVALID : An IPC connection has invalid state.

Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-MQIPC_INITIALIZATION : MQIPC initialization failed because [chars]

Explanation	MQIPC initialization failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-MQIPC_ADVANCE : Failed to advance MQIPC queue because [chars]

Explanation	The MQIPC initialization failed.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-MESSAGE_RELAY : Failed to relay a message because [chars]

Explanation	Failed to relay a message. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot	subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-3-LICENSE_SERVICE_SETUP : Failed to setup the licensing proxy service

Explanation	License Manager failed to set itself up as a proxy for licensable features.
Recommended Action	Collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-6-THROUGHPUT_LICENSE : Throughput license [chars], throughput set to [chars]

Explanation	Status indicating whether throughput license is found and the corresponding througput the CPP hardware is configured to provide.
Recommended Action	No user action is necessary. This is an informational message indicating throughput configured.

%LMRP-3-THROUGHPUT_LICENSE_APPLY_FAILED : Throughput license look-up failed due to '[chars]'

Explanation	This message is to notify the user that a license look-up did not succeed because license manager process could not be contacted. This is a rare case but is due to either a crashed license daemon(licensed) or it encountered an internal error.
Recommended Action	No user action is necessary. However, it is possible that a re-boot of the box may correct this behavior.

%LMRP-3-UDI_AUTH : Quack Unique Device Identifier authentication failed

Explanation	This chassis seems to be compromised or tampered with. UDI burned on to the Quack chip and the one read from chassis EEPROM do not match. It can also be a case of either EEPROM or Quack device failure. More details about which specific field failed to match are logged in license daemon log file (licensed_R0.log).
Recommended Action	User immediately needs to contact Cisco support. This device appears to be tampered with or is a counterfeit device or had a system failure.

%LMRP-3-RTU_UNINITIALIZED : RTU not yet initialized: stack enabled [dec]

Explanation	License manager has not initialized RTU, but manager got RTU enable/disable request
Recommended Action	No user action is necessary. Reloading might work

LNMC

%LNMC-3-BADCLSIIND : [chars] Invalid indication [chars], [chars]

Explanation	A LAN network manager system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LNMC-3-BADCLSIRET : [chars] Invalid ret code ([hex]) [chars], [chars]

Explanation	A LAN network manager system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LNMC-3-BADCLSICNF : [chars] Invalid confirm [chars] [chars]

Explanation	A LAN network manager system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LNMC-3-BADCLSI : [chars] primitive not valid for lnm [chars] [chars]

Explanation	A LAN network manager system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

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

Explanation	A LAN network manager system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

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

Explanation	A LAN network manager system error occurred.

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

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

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

Explanation	A LAN network manager system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

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

Explanation	A LAN network manager system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

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

Explanation	A LAN network manager system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LOADBALANCE_TRACE_MESSAGE

%LOADBALANCE_TRACE_MESSAGE-3-AP_SW_UPDATE_ERR_LOG_MSG : AP SW update [chars]

Explanation	AP Software Update logging
Recommended Action	AP software update failed. ISSU image upgrade or SMU patching could be aborted. The user needs to initiate ISSU upgrade/SMU patch again. If the error occured during manual operation, operation can be initiated again

%LOADBALANCE_TRACE_MESSAGE-5-AP_SW_UPDATE_LOG_MSG : AP SW update [chars]

Explanation	AP Software Update logging
Recommended Action	No action required

LOGGER

%LOGGER-3-TEST1 : Non rate limited message test

Explanation	
Recommended Action	

%LOGGER-3-TEST2 : Rate limited message test

Explanation	
Recommended Action	

%LOGGER-6-DROPPED : [int] messages, MSGDEF_LIMIT_GLACIAL

Explanation	Due to a lack of available buffers, one or more log messages were dropped.
Recommended Action	LOG_STD_ACTION

%LOGGER-3-ASSERT : failure at [hex]:[chars]:[int] ([chars]), MSGDEF_LIMIT_FAST

Explanation	Software detected a fatal data inconsistency.
Recommended Action	LOG_STD_ACTION

%LOGGER-6-IPC_ALLOC : failure, MSGDEF_LIMIT_GLACIAL

Explanation	Logger client IPC alloc failed, messages were droppped.
Recommended Action	LOG_STD_ACTION

%LOGGER-6-IPC_SEND : failure: [chars], MSGDEF_LIMIT_GLACIAL

Explanation	Logger client IPC send failed, messages were dropped.
Recommended Action	LOG_STD_ACTION

%LOGGER-3-IPC_INIT : failure

Explanation	Logger client proxy IPC registration failed.
Recommended Action	LOG_STD_ACTION

%LOGGER-3-IPC_UNHANDLED : failure, MSGDEF_LIMIT_GLACIAL

Explanation	An unknown message was received by the logger client proxy.
Recommended Action	LOG_STD_ACTION

LSD

%LSD-2-RESOURCE : [chars]

Explanation	System resource error occured
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%LSD-2-INVALID_VAR : [chars]

Explanation	Function received invalid parameters
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-4-INVALID_VAR_WARN : [chars]

Explanation	Function received invalid parameters

%LSD-4-INVALID_VAR_WARN : [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-4-BADAPI : [chars] from [chars]

Explanation	LSD recieved message with invalid parameters
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-2-TESTAPP2 : Test app error: [chars]: [hex] [hex]

Explanation	Test application error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-2-INVALID_VAR2 : [chars] [hex] [hex]

Explanation	Function received invalid parameters
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-2-APP_NOTSUPP : [chars] interface does not support app [chars]

Explanation	Interface does not support app
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-2-AVL : [chars] [hex]

Explanation	AVL tree operation error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-2-FPIHANDLER : [chars] [hex]

Explanation	FPI Handler error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-CHUNKMGR : chunk mgr: [chars] [hex]

Explanation	Chunk manager error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-REWMGR : Rewrite Manager: [chars] [hex]

Explanation	Rewrite Manager error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-REWMGR2 : [chars] [hex] [hex]

Explanation	Rewrite lookup failed due to FPI inconsisency

%LSD-3-REWMGR2 : [chars] [hex] [hex]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-EVTLOGBADSOURCE : Illegal log event source: [dec]

Explanation	Illegal event found in log buffer
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-UPDATELISTMGREXEC : Illegal exec: [chars] [hex]

Explanation	Illegal code execution
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-UPDATELISTMGR2 : [chars] [dec] [dec]

Explanation	General error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-APPMGR : [chars] [hex]

Explanation	App Mansger error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-CLIENT_CONN : [chars]

Explanation	Client connection error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-CLIENT_CONN2 : [chars] [hex] [hex]

Explanation	Client connection error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-INTF_DB : [chars]

Explanation	interface db error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-INTF_DB2 : [chars] [hex] [hex]

Explanation	interface db error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-LABEL : [chars][dec]

Explanation	label operation error

%LSD-3-LABEL : [chars][dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-LABEL2 : [chars] [hex] [hex]

Explanation	label error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-4-LABEL_RESOURCE : label range [dec]-[dec] exhausted

Explanation	MPLS application is trying to allocate more labels than configuration will allow
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-4-LABELFREETO : requested free timeout ([int] ms) by [chars] limited to: [int] ms

Explanation	MPLS application label free timeout exceed max allowed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-MULTISERVICEREQ : Multiple outstanding service requests: [dec] [dec]

Explanation	Server request attempted with one already outstanding
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-BADEXEC : Unexpected Code Execution: [chars] [dec]

Explanation	Unexpected Code Execution
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-INVALID_PROC_EVT : Unexpected process event [dec] for pid [dec]

Explanation	The LSD component received an unexpected process event notification for the process with the specified ID
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-OS_NOTIFY : Process id [dec] [chars], error code [dec]

Explanation	LSD was unable to notify the operating system about (un)registration of the specified process.
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold>, <CmdBold>show running-config**, **show mpls infrastructure lsd apps** and contact your Cisco technical support representative.

%LSD-4-HW_RESOURCE_EXHAUSTED : Hardware resource exhausted on [chars] of type [dec]

Explanation	The platform has run out of hardware resources.
Recommended Action	Reduce the mpls configuration.

%LSD-3-LABEL_TBL_ERR : Failed to create new label table due to [chars]

Explanation	Label space is not carved properly. This is likely due to platform capabilities.
Recommended Action	Check platform capabilities to make sure max label values are set correctly.

%LSD-3-OUTLABEL_RESV_ERROR : [chars]

Explanation	outlabel reservation error - allocated cli-app outlabels are more than the platform supported outlabels
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LSD_CLIENT

%LSD_CLIENT-3-UTIL2 : [chars]: [hex] [hex]

Explanation	MFI Utilities error occurred
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%LSD_CLIENT-3-PCHUNK2 : [chars]: [chars] [hex] [hex]

Explanation	Parameterized Chunk Manager error occurred
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version**, **show running-config** and **show process memory** and contact your Cisco technical support representative.

%LSD_CLIENT-2-MSGHANDLERERR : Client=[dec] Msg type=[dec] Error=[chars]

Explanation	LSD Client API message handler error encountered
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%LSD_CLIENT-3-CLIENTAPI : Client API error: [chars] [dec]

Explanation	Unexpected Client API error
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%LSD_CLIENT-3-INVALID_VAR : [chars]

Explanation	Function received invalid parameters
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%LSD_CLIENT-2-XDREXEC : [chars] [dec]

Explanation	Illegal code execution in XDR path
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%LSD_CLIENT-2-XDREXEC2 : [chars] [hex] [hex]

Explanation	Illegal code execution in XDR path
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%LSD_CLIENT-3-ISSU_MSG_CONV : [chars] [dec] [dec]

Explanation	Could not convert received message type to known message
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%LSD_CLIENT-3-ISSU_REG : ISSU client [chars] ([dec]), entity [dec], failed ISSU registration: [chars]

Explanation	ISSU negotiation failed for this XDR client.
Recommended Action	This error indicates a coding problem. It is an error that will occur every time this image is run, and requires a code change to fix it.

%LSD_CLIENT-3-ISSU_ENUM_ERROR : Enum for [chars] is not ISSU-compliant: [chars]

Explanation	The given enumeration is not ISSU-compliant for the reason given. Unpredictable behaviour will result when interoperating with different IOS versions.
Recommended Action	This requires a code fix before the image can be shipped or ISSU will be broken.

LSD_HA

%LSD_HA-2-RESOURCE : [chars]

Explanation	System resource error occured
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%LSD_HA-4-CF : [chars][dec]

Explanation	CF related error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD_HA-2-RF : [chars][dec]

Explanation	RF related error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD_HA-3-INVALID_VAR : [chars]

Explanation	Function received invalid parameters
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD_HA-3-GENERAL : [chars]

Explanation	Function received invalid parameters
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD_HA-3-UNSENT_MSG_DB : [chars]

Explanation	Error happen in unsent msg db
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD_HA-3-LABEL_RANGE_DB : [chars]

Explanation	Error happen in label range db
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LSMPI through MCT1E1

- LSMPI
- LUA_VM
- MAB
- MACSEC
- MATM
- MBOX
- MCPRP_CLI
- MCPRP_DAI
- MCP_SYS

- [MCT1E1](#)

LSMPI

%LSMPI-4-INJECT_FEATURE_ESCAPE : Egress [chars] packet delivered via legacy inject path

Explanation	A packet with a CPP supported L3 encapsulation (such as IP) was produced by IOS but delivered to CPP via the L2/legacy inject path instead of the proper L3 inject path. For this packet, outbound features will not be applied and packet accounting will likely be incorrect.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LUA_VM

%LUA_VM-2-INITIALIZATION : Cannot initialize the Lua Virtual Machine

Explanation	The Lua Virtual Machine is a critical component of the shell-manager process. It is used to render responses to user commands. If this component cannot be initialized then the shell-manager will be unable to process any commands directed at the IOS-XE daemons.
Recommended Action	The shell-manager process could not be started. Check the trace log files for more details as to why the virtual machine failed to initialize correctly. This may be an out of memory condition so rebooting the chassis may resolve the problem.

MAB

%MAB-5-SUCCESS :

Explanation	MAB Authentication was successful.
Recommended Action	No action is required.

%MAB-5-FAIL :

Explanation	MAB Authentication was unsuccessful.
Recommended Action	No action is required.

MACSEC

%MACSEC-4-RX_SC_EXCEED : (RX SCI [hex] : TX SCI [hex] : vport [dec] : secy vport [dec])

Explanation	RX SC exceeds hardware limit.
Recommended Action	No action required (normal operation).

%MACSEC-4-TX_SC_EXCEED : (TX SCI [hex] : vport [dec])

Explanation	TX SC exceeds hardware limit.
Recommended Action	No action required (normal operation).

%MACSEC-4-IPMTU_OVERSIZE : MACsec enabled interface [chars] IP MTU can't be more than [dec]

Explanation	User config IP MTU size over MACsec enabled interface allows.
Recommended Action	Reconfigure IP MTU base on the suggested range.

%MACSEC-5-TX_SA_PN_EXPIRE : (TX SCI [hex] : AN [dec]) TX SA PN about to expire.

Explanation	TX SA PN about to expire. Send a request to MKA to perform a SAK Rekey for the given TX SCI and AN.
Recommended Action	No action required (normal operation).

%MACSEC-6-CREATE_TX_SC : ([chars] TX SCI [hex] : vport [dec])

Explanation	MKA request MACsec PD to create a TX SC on the given TX SCI and vport.
Recommended Action	No action required (normal operation).

%MACSEC-6-DEL_TX_SC : ([chars] TX SCI [hex] : vport [dec])

Explanation	MKA request MACsec PD to delete a TX SC on the given TX SCI and vport.
Recommended Action	No action required (normal operation).

%MACSEC-6-CREATE_RX_SC : ([chars] RX SCI [hex] : TX SCI [hex] : vport [dec] : secy vport [dec])

Explanation	MKA request MACsec PD to create a RX SC on the given RX SCI and vport.
Recommended Action	No action required (normal operation).

%MACSEC-6-DEL_RX_SC : ([chars] RX SCI [hex] : vport [dec])

Explanation	MKA request MACsec PD to delete a RX SC on the given RX SCI and vport.
Recommended Action	No action required (normal operation).No action required (normal operation).

%MACSEC-6-INSTALL_TX_SA : ([chars] TX SCI [hex] : vport [dec] : an [dec] : next_pn [hex])

Explanation	MKA request MACsec PD to install a TX SA on the given TX SCI, vport and an.
Recommended Action	No action required (normal operation).

%MACSEC-6-INSTALL_RX_SA : ([chars] RX SCI [hex] : vport [dec] : an [dec] : secy_vport [dec])

Explanation	MKA request MACsec PD to install a RX SA on the given RX SCI, vport and an.
Recommended Action	No action required (normal operation).

%MACSEC-6-DEL_RX_SA : ([chars] RX SCI [hex] : vport [dec] : an [dec])

Explanation	MKA request MACsec PD to delete a RX SA on the given RX SCI, vport and an.
Recommended Action	No action required (normal operation).

%MACSEC-6-POST_SUCC : ([chars] Power-On-System-Test success in Trial No.[dec])

Explanation	MACSEC power-on-system-test successful
Recommended Action	No action required (normal operation).

%MACSEC-6-POST_FAIL : ([chars] Power-On-System-Test failure in Trial No.[dec])

Explanation	MACSEC power-on-system-test failed

%MACSEC-6-POST_FAIL : ([chars] Power-On-System-Test failure in Trial No.[dec])

Recommended Action	No action required (normal operation).

MATM

%MATM-3-MAX_ENTRIES : The maximum number of MAC addresses has been reached:[dec]

Explanation	The maximum number of MAC entries that can be programmed has been reached.
Recommended Action	New MAC addresses will not be learned. Stop any redundant MAC incrementing traffic for extra streams.

%MATM-3-RECONCILIATION : Reconciliation post switchover failed : [chars]

Explanation	Consistency check across modules shows inconsistency in data.
Recommended Action	Find out more about the error by using the commands show platform matm recon_state and show tech-support and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%MATM-3-HWERROR : Hardware [chars] failed

Explanation	A hardware API access error message occurred.
Recommended Action	Find out more about the error by using the commands show platform matm recon_state and show tech-support and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%MATM-3-INVALID_EVENT : An invalid event :[dec] received in [chars], expected event:[dec]

Explanation	MATM feature received invalid event on it's event handler
Recommended Action	The condition is being recovered, no action is required

MBOX

%MBOX-3-REG_FAIL_BAD_PARM : event [hex], handler [hex]

Explanation	Registration of handler function for a mailbox event failed due to a bad parameter.
Recommended Action	LOG_STD_ACTION

%MBOX-3-REG_FAIL_HANDLER_EXISTS : event [hex], handler [hex]

Explanation	Registration of handler function for a mailbox event failed because a handler is already registered for the event.
Recommended Action	LOG_STD_ACTION

%MBOX-3-DEREG_FAIL_BAD_PARM : event [hex]

Explanation	Deregistration of handler function for a mailbox event failed due to a bad parameter.
Recommended Action	LOG_STD_ACTION

%MBOX-3-DEREG_FAIL_NO_HANDLER : event [hex], handler [hex]

Explanation	Deregistration of handler function for a mailbox event failed because no handler was registered for the event.
Recommended Action	LOG_STD_ACTION

%MBOX-3-NO_HANDLER_FOR_EVENT : events [hex] bad bit number [int]

Explanation	Mailbox event is pending but no handler is registered for event.
Recommended Action	LOG_STD_ACTION

MCPRP_CLI

%MCPRP_CLI-6-LICENSE_EXPIRED : Shell access disabled due to license expiration

Explanation	Shell license is expired. Thus the shell access is disabled
Recommended Action	Get and install another shell license

MCPRP_DAI

%MCPRP_DAI-4-ERR_DISABLE : DAI detected error on [chars], putting [chars] to err-disable

Explanation	Dynamic ARP inspection has detected an error condition because ARP packets have exceeded the configured rate or burst

%MCPRP_DAI-4-ERR_DISABLE : DAI detected error on [chars], putting [chars] to err-disable

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MCP_SYS

%MCP_SYS-0-ASSERTION_FAILED : Assertion failed: [chars]

Explanation	An internal state consistency check failed.Correct operation cannot be guaranteed, and the system has been halted.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MCT1E1

%MCT1E1-3-INITFAIL : MCT1E1 (bay [dec]), Init Failed at [chars] - line [dec] arg [hex]

Explanation	The SPA failed to complete hardware initialization.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%MCT1E1-3-UNCOR_MEM_ERR : [chars]: [dec] uncorrectable [chars] memory error(s) encountered. The memory address of the most recent error is: [hex]. The SPA is being restarted.

Explanation	The SPA driver detected an uncorrectable memory error condition on the SPA card. Packet corruption may result.
Recommended Action	The SPA driver has encountered an uncorrectable memory error on the SPA card. The hexadecimal memory address of the most recent error is specified in the message text on the console or in the system log. Please power down and reseat the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-BAD_SIZE_ERR : [chars]: [dec] [chars] events on HDLC Controller were encountered. The SPA is being Restarted.

Explanation	The SPA driver detected an error event on the HDLC controller.
Recommended Action	CTE1_STD_ACTION

%MCT1E1-3-HDLC_CTRL_ERR : [chars]: [dec] [chars] events on HDLC Controller were encountered.

Explanation	The SPA driver detected an error event on the HDLC Controller.
Recommended Action	The SPA driver has encountered an error event on the SPA card. CTE1_STD_ACTION

%MCT1E1-3-COR_MEM_ERR : [chars]: [dec] correctable [chars] memory error(s) encountered. The error has been corrected and normal processing should continue. The memory address of most the recent error is: [hex]

Explanation	The SPA driver detected a correctable memory error on the SPA card.
Recommended Action	The SPA has encountered a correctable memory error on the SPA card. The error has been corrected and normal processing should continue. The hexadecimal memory address of the most recent error is specified in the message text on the console or in the system log. CTE1_STD_ACTION

%MCT1E1-3-UNCOR_PARITY_ERR : [chars]: [dec] [chars] parity error(s) encountered. The address of the most recent error is: [hex]

Explanation	The SPA driver detected an uncorrectable parity error condition on the SPA card. Packet corruption may result.
Recommended Action	Please power down and reseat the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-2-CMD_DROP : [chars], cmd: [dec], arg0: [dec], arg1: [dec] arg2: [dec], arg3: [dec], vc: [dec] reason: [chars]

Explanation	The SPA driver dropped a configuration command. One or more interfaces or controllers associated with the SPA may not be configured correctly.
Recommended Action	Please check the configuration of the interfaces and controllers and correct the configuration if necessary. If the condition persists, copy the error message exactly as it appears, and report it to your technical support representative. Please also supply a **show tech-support** at that time.

%MCT1E1-2-EV_DROP : [chars], cmd: [dec], arg0: [dec], arg1: [dec] arg2: [dec] arg3: [dec] reason [chars]

Explanation	The SPA driver dropped an event notification command. Counters or line protocols for one or more interfaces or controllers may be incorrect.
Recommended Action	Please restart any interfaces or controllers that are down. If the condition persists, copy the error message exactly as it appears, and report it to your technical support representative. Please also supply a **show tech-support** at that time.

%MCT1E1-3-FRMR_CLKFAIL : [chars]: Framer input clock failure detected, CTCLK = [chars]CTIVE, LREFCLK = [chars]CTIVE, SREFCLK = [chars]CTIVE, ctclk count [int] lrefclk count [int] srefclk count [int]

Explanation	The SPA driver detected failure of one ore more input clocks to the framer chip. The T1/E1 Ports may not operate as expected.
Recommended Action	The SPA driver has detected input clock failures on the framer chip. If the ports on the SPA are not operating as expected, power down and reseat the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-BATCH_CMD_INVALID_TAG : [chars]: Invalid tag value [dec] at index [dec].

Explanation	The SPA driver detected invalid tag value in a batch command.
Recommended Action	The SPA driver has detected invalid command format from RP. If the ports on the SPA are not operating as expected, power down and reseat the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-PERIODIC_PROCESS : [chars]: periodic process error [chars].

Explanation	The SPA driver detected an error with periodic processing routine.
Recommended Action	The SPA driver has detected problem with periodic routine. If the ports on the SPA are not operating as expected, power down and reseat the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-CMD_FAILED : [chars]: Failed to send command '[chars]' to SPA - [chars].

Explanation	The SPA driver could not successfully send a cmd to firmware.
Recommended Action	The SPA driver has detected a command failure. If the ports on the SPA are not operating as expected, power down and reseat the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-AUTODNR : [chars] failed for slot [dec] bay [dec] err [dec]

Explanation	AUTODNR/USNDNR process has failed. The SPA and SIP are out of synchronization. This condition indicates a software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MCT1E1-3-TIMEOUT : [chars]: [chars] failed: [dec], state: [dec], ml_id: [dec] progress: [dec]

Explanation	Linkrec is stuck at non ready. This condition indicates a software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MCT1E1-3-QUEUE_HALT_FAIL : [chars]: Could not suspend message ([dec]) or command ([dec]) queue

Explanation	The Message/Command queue could not be stopped prior to the OIR removal of the SPA.
Recommended Action	If the ports on the SPA are not operating as expected, power down and reseat the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-SPI4_HW_ERR : [chars]: [chars] Hardware error was encountered.

Explanation	The SPA driver detected a Hardware error condition on the SPA card. This might result in improper operation.
Recommended Action	The SPA driver has encountered a Hardware error on the SPA's SPI4 bus. Please power down and reseat the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-FPGA_CNTR_ERR : [chars]: [dec] [chars] error(s) encountered.

Explanation	The SPA driver detected an FPGA error condition on the SPA card. Interface packet error counter corruption may result.
Recommended Action	The SPA driver has encountered a parity error on the SPA card. The SPA should continue to function normally. If the error condition recurs, please reset the SPA by doing a physical OIR. CTE1_STD_ACTION

%MCT1E1-3-BERT_STOP_ERR : [chars]: Failed to stop BERT operation on interface [chars] - [chars].

Explanation	The SPA failed to stop the BERT operation on the indicated interface. The interface might not be functional after this event, if that is the case, try to 'shutdown' and then 'no shutdown' the interface to recover from this failure.
Recommended Action	If manual 'shutdown' and then 'no shutdown' of the interface does not restore the operation, then SPA will need to be reloaded to recover from this failure state.

%MCT1E1-3-BERT_OPERATION_ERR : [chars]: BERT operation error on interface [chars] - [chars].

Explanation	The SPA reported failure during BERT operation. The current BERT operation will be terminated, but the affected interface might not be operational, if that is the case, try to 'shutdown' and then 'no shutdown' the interface to recover from this failure.
Recommended Action	If manual 'shutdown' and then 'no shutdown' of the interface does not restore the operation, then SPA will need to be reloaded to recover from this failure state.

%MCT1E1-3-LOOP_UNSUPPORTED : [chars]: [chars] on port [dec]/[dec]/[dec] and it is not supported on SPA.

Explanation	The SPA driver received 'loopback payload' request from the remote device on the SPA card. SPA does not support loopback payload.
Recommended Action	The SPA driver has received 'loopback payload' request from the remote device on the SPA card. SPA does not support loopback payload. The remote request is ignored. Please unconfigure the command on the remote device.

%MCT1E1-3-LOOPBACK_CFG_ERR : [chars]: Loop [chars] configuration error on controller [chars] - [chars][chars].

Explanation	The SPA reported failure during setting of loop up/down operation. The current loopback will be terminated, but the affected controller might not be operational, if that is the case, try to 'shutdown' and then 'no shutdown' the controller to recover from this failure.
Recommended Action	If manual 'shutdown' and then 'no shutdown' of the controller does not restore the operation, then SPA will need to be reloaded to recover from this failure state.

MDNSPROXY through MFIB

- MDNSPROXY

- MDR

- MDT_SUBSCRIPTION

- MEM_MGR

- MEM_PROXY

- MESH_DB_TRACE_MESSAGE

- MESH_TRACE_MESSAGE

- METS

- MFI

- [MFIB](#)

MDNSPROXY

%MDNSPROXY-4-INIT_MDNS_FAIL : [chars] Initialisation failure.

Explanation	An internal error occurred during mDNS initialisation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MDNSPROXY-3-PORT_RESERVED_MDNS : [chars] Initialisation failure.

Explanation	UDP Port 5353 Already reserved. Please disable the feature which uses 5353 and And Try Again.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MDNSPROXY-3-CHUNK_MEMORY_FAIL : Chunk memory allocation failed

Explanation	Chunk memory allocation failed for Cache element
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MDNSPROXY-3-API_FAIL_MDNS : [chars] API failed

Explanation	An error occurred while calling the APIs.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MDNSPROXY-3-NULL_CONTEXT_ID_MDNS : Encountered a NULL context for the ID [int]

Explanation	NULL context for the ID passed in id_to_ptr.

%MDNSPROXY-3-NULL_CONTEXT_ID_MDNS : Encountered a NULL context for the ID [int]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MDNSPROXY-3-OS_API_FAIL_MDNS : IOS API [chars] failed

Explanation	Encountered an error while calling the API.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MDNSPROXY-3-STATIC_SERVICE_FAIL_MDNS : Static Service: [chars]

Explanation	Encountered an error while processing Static Service.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MDR

%MDR-5-CARD_RESTART : Minimal Disruptive Restart [chars] to acquire provisioned software

Explanation	The FRU specified was not running the currently provisioned software, which it will acquire on Minimal Disruptive Restart.
Recommended Action	No user action is necessary. This message indicates the system is functioning normally and is provided for informational purposes only.

%MDR-3-NO_ACTIVE_ESP : No active ESP was found when initiating Minimal Disruptive Restart

Explanation	An unexpected error has occured where no active ESP was found to continue forwarinding traffic during the Minimal Disruptive Restart. All requested linecards and or modules were reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or linecard OIR.

%MDR-5-SIP_UNSUPPORTED : [chars] does not support Minimal Disruptive Restart

Explanation	The linecard specified was restarted during an Minimal Disruptive Restart, however it does not support this feature either because of its type or there are no SPA's that support Minimal Disruptive Restart inserted. This linecard was reset as normal.
Recommended Action	No user action is necessary.

%MDR-5-SPA_UNSUPPORTED : [chars] does not support Minimal Disruptive Restart

Explanation	The module specified was restarted during an Minimal Disruptive Restart, however it does not support this feature either because of its type or software version. This module was reset as normal.
Recommended Action	No user action is necessary.

%MDR-3-SIP_OFFLINE : [chars] is not online to perform Minimal Disruptive Restart

Explanation	An unexpected error has occured where the specified linecard was to undergo Minimal Disruptive Restart however the linecard was not found to be online. The linecard was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or linecard OIR.

%MDR-3-SPA_OFFLINE : [chars] in [chars] is not online to perform Minimal Disruptive Restart

Explanation	An unexpected error has occured where the specified module was to undergo Minimal Disruptive Restart however the module was not found to be online. The module was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-SPA_IS_NOT_READY : [chars] in [chars] is not ready to perform Minimal Disruptive Restart

Explanation	An unexpected error has occured where the specified module was to undergo Minimal Disruptive Restart however the module was not found to be ready. The module was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-SPA_WAS_NOT_READY : [chars] in [chars] was not ready to perform Minimal Disruptive Restart

Explanation	An unexpected error has occured where the specified module was to undergo Minimal Disruptive Restart however the module was not found to be ready at the time it was checked. The module was reset was normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-NO_SPAS_IN_SIP : No Minimal Disruptive Restart compatible SPAs found in [chars]

Explanation	An unexpected error has occured where the specified linecard that was to undergo Minimal Disruptive Restart did not contain any compatible SPAs. This linecard was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-RESTART_FAILED : Failed to perform Minimal Disruptive Restart on [chars]

Explanation	An unexpected error has occured where the specified linecard or module failed to undergo a Minimal Disruptive Restart. This linecard or module was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors.

%MDR-3-READ_SIP_RESET : Failed to read a valid Minimal Disruptive Restart reset value for [chars]

Explanation	An unexpected error has occured where either modules in or the specified linecard itself, was to undergo Minimal Disruptive Restart however a valid SIP reset value could not be read. This linecard was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors.

%MDR-3-READ_COMPAT_INFO : Failed to read valid Minimal Disruptive Restart compatibility information for [chars]

Explanation	An unexpected error has occured where either modules in or the specified linecard itself, was to undergo Minimal Disruptive Restart however valid compatibility information could not be read prior to commencing Minimal Disruptive Restart. If the linecard itself was to go through Minimal Disruptive Restart, it and the modules within it were reset as normal. If only modules were going through Minimal Disruptuve Restart, all modules were reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors.

%MDR-3-SOFTWARE_TRANSFER : Failed to receive upgrade software for [chars]

Explanation	An unexpected error has occured where the specified linecard was to undergo Minimal Disruptive Restart however the linecard was not able to receive the upgrade software prior to commencing Minimal Disruptive Restart. The linecard was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors.

%MDR-3-SPA_BAY_INVALID : Could not perform Minimal Disruptive Restart on invalid [chars] in [chars]

Explanation	An unexpected error has occured where the specified module was to undergo Minimal Disruptive Restart however the module was invalid.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-SPA_NOT_FOUND : [chars] in [chars] could not be found to perform Minimal Disruptive Restart

Explanation	An unexpected error has occured where the specified module was to undergo Minimal Disruptive Restart however the module was not found. The module was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-SPA_TYPE_MISMATCH : Could not perform Minimal Disruptive Restart on [chars] in [chars] due to a SPA type mismatch

Explanation	An unexpected error has occured where the specified module was to undergo Minimal Disruptive Restart however the module's SPA type was found to be different to what was expected. The module was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-NODE_ISSU_SIP_WAIT : Could not wait for [chars] to complete Minimal Disruptive Restart

Explanation	An unexpected error has occured where the specified linecard was performing a Minimal Disruptive Restart using node ISSU, however Minimal Disruptive Restart did not complete before the next operation needed to commence. This linecard was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-NODE_ISSU_SPA_WAIT : Could not wait for [chars] in [chars] to complete Minimal Disruptive Restart

Explanation	An unexpected error has occured where the specified module was performing a Minimal Disruptive Restart using node ISSU, however Minimal Disruptive Restart did not complete before the next operation needed to commence. This module was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

MDT_SUBSCRIPTION

%MDT_SUBSCRIPTION-4-INVALID_ARGUMENTS :

Explanation	Detailed explanation of why the subscription failed The value of the given parameter is invalid or not specified.
Recommended Action	Correct the invalid parameter and try the subscription again.

%MDT_SUBSCRIPTION-4-NOT_SUPPORTED :

Explanation	Detailed explanation of why the subscription failed The value of the given parameter is not supported.
Recommended Action	Try the subscription again with a supported value.

%MDT_SUBSCRIPTION-4-XPATH_INVALID :

Explanation	Detailed explanation of why the subscription failed The specified XPath filter is invalid.
Recommended Action	Correct the XPath filter and try the subscription again.

%MDT_SUBSCRIPTION-4-OUTSIDE_LIMIT :

Explanation	Detailed explanation of why the subscription failed The value of the parameter is outside of the allowable range.
Recommended Action	Try the subscription again with a value within the allowable range.

MEM_MGR

%MEM_MGR-3-MEM_MGR_NOMEM : Out of memory

Explanation	System out of memory.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MEM_MGR-3-MEM_MGR_EXCEED_MAX : memory pool exceeds maximum ([dec] bytes) allowed.

Explanation	An attempt was made to allocate a buffer from the specified memory pool which has reached its maximum limit
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MEM_MGR-3-MEM_MGR_INVALID : The Memory Management code encounters an invalid parameter.

Explanation	It appears that the Memory Management code has received an invalid parameter from its caller.
Recommended Action	Copy the error message exactly has it appears, and report it to your technical support representative.

%MEM_MGR-2-DRAM_POOL_CREATE_ERR : return code [dec]

Explanation	Creation of public DRAM memory pool failed.
Recommended Action	LOG_STD_ACTION

%MEM_MGR-2-SRAM_POOL_CREATE_ERR : return code [dec]

Explanation	Creation of public SRAM memory pool failed.
Recommended Action	LOG_STD_ACTION

%MEM_MGR-2-DUP_DRAM_POOL_CREATE : pool exists

Explanation	Request to create public DRAM memory pool failed because pool already exists.
Recommended Action	LOG_STD_ACTION

%MEM_MGR-2-DUP_SRAM_POOL_CREATE : pool exists

Explanation	Request to create public SRAM memory pool failed because pool already exists.
Recommended Action	LOG_STD_ACTION

%MEM_MGR-3-POOL_CREATE_PARM_ERR : addr [hex], size [int]

Explanation	Creation of memory pool failed due to bad parameter value.
Recommended Action	LOG_STD_ACTION

%MEM_MGR-3-POOL_APPEND_PARM_ERR : pool handle [hex], addr [hex], size [int]

Explanation	Append of additional memory to pool failed due to bad parameter value.
Recommended Action	LOG_STD_ACTION

%MEM_MGR-3-POOL_STATS_PARM_ERR : pool handle [hex], stats addr [hex]

Explanation	Read of memory pool statistics failed due to bad parameter value.
Recommended Action	LOG_STD_ACTION

%MEM_MGR-3-MALLOC_PARM_ERR : pool handle [hex], size [int]

Explanation	Memory allocation request failed due to bad parameter value.
Recommended Action	LOG_STD_ACTION

%MEM_MGR-3-LOCK_PARM_ERR : pool handle [hex], addr [hex]

Explanation	Request to lock memory pool element failed due to bad parameter value.

%MEM_MGR-3-LOCK_PARM_ERR : pool handle [hex], addr [hex]

Recommended Action	LOG_STD_ACTION

%MEM_MGR-3-FREE_PARM_ERR : pool handle [hex], addr [hex]

Explanation	Memory deallocation request failed due to bad parameter value.
Recommended Action	LOG_STD_ACTION

%MEM_MGR-3-DESTROY_PARM_ERR : pool handle [hex]

Explanation	Request to delete memory pool failed due to bad parameter value.
Recommended Action	LOG_STD_ACTION

%MEM_MGR-2-POOL_CORRUPT : pool handle [hex], magic value [hex], MSGDEF_LIMIT_MEDIUM

Explanation	Memory pool data structure has been corrupted.
Recommended Action	LOG_STD_ACTION

%MEM_MGR-2-ELEMENT_CORRUPT : pool handle [hex], addr 0x5x, magic value [hex], ref cnt [int], MSGDEF_LIMIT_MEDIUM

Explanation	Memory element has been corrupted.
Recommended Action	LOG_STD_ACTION

%MEM_MGR-3-MALLOC_NO_MEM : pool handle [hex], size [int], MSGDEF_LIMIT_MEDIUM

Explanation	Memory pool allocation request failed due to insufficient memory being available.
Recommended Action	LOG_STD_ACTION

%MEM_MGR-3-LOCK_MAX_REF_CNT : pool handle [hex], addr [hex], MSGDEF_LIMIT_MEDIUM

Explanation	Request to lock memory pool element failed due to reference count for element already being at the maximum value.

%MEM_MGR-3-LOCK_MAX_REF_CNT : pool handle [hex], addr [hex], MSGDEF_LIMIT_MEDIUM

Recommended Action	LOG_STD_ACTION

MEM_PROXY

%MEM_PROXY-3-PROXY_IPC_PAK_ALLOC_FAILED :

Explanation	Allocation of IPC packet failed.
Recommended Action	LOG_STD_ACTION

%MEM_PROXY-3-PROXY_IPC_SEND_FAILED : [chars]

Explanation	Could not send IPC request for more memory.
Recommended Action	LOG_STD_ACTION

MESH_DB_TRACE_MESSAGE

%MESH_DB_TRACE_MESSAGE-3-EWLC_MESH_DB_EXEC_MSG : %% Error: [chars]

Explanation	Improper arguments or config
Recommended Action	Arguments to be changed

%MESH_DB_TRACE_MESSAGE-6-EWLC_MESH_DB_INFO_MSG : %% Info: [chars]

Explanation	Info level logs
Recommended Action	No action required

MESH_TRACE_MESSAGE

%MESH_TRACE_MESSAGE-3-EWLC_MESH_EXEC_MSG : %% Error: [chars]

Explanation	Improper arguments or config
Recommended Action	Arguments to be changed

%MESH_TRACE_MESSAGE-3-EWLC_MESH_PROFILE_CHANGE_MSG : %% Error: [chars]

Explanation	Mesh profile change for AP did not get Applied
Recommended Action	Reboot the AP for the mesh configs to be applied

%MESH_TRACE_MESSAGE-3-EWLC_MESH_AP_DISCONNECT_MSG : %% Error: [chars]

Explanation	Failed to Disconnect AP for Mesh config changes
Recommended Action	Reboot the AP for the mesh configs to be applied

%MESH_TRACE_MESSAGE-3-EWLC_MESH_AP_RESET_MSG : %% Error: [chars]

Explanation	Failed to reboot AP for Mesh config changes
Recommended Action	Reboot the AP for the mesh configs to be applied

METS

%METS-3-BADMETHOD : Cannot process [chars] method [int]

Explanation	A method list function encountered a method list that was unknown, or could not be handled.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%METS-3-NOREGION : No region found: [chars]

Explanation	Resource failure: No region found.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%METS-3-NULLPOOL : Can't process null pool: [chars]

Explanation	Resource failure: Null pool in the region

%METS-3-NULLPOOL : Can't process null pool: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%METS-2-INITFAIL : Can't start analysis

Explanation	The requested operation failed due to lack of resource, maybe temporarily
Recommended Action	Reduce system resource/memory usage, and retry for the commands.

MFI

%MFI-3-REDISTMGR : Redistribution Manager: [chars] [hex]

Explanation	Redistribution Manager error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-REDISTMGR2 : Redistribution Manager: [chars] [hex] [hex]

Explanation	Redistribution Manager error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-4-REDISTMGR3 : Redistribution Manager: [chars] [hex]

Explanation	Redistribution Manager error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-EVTLOGCLIENT : Invalid client [dec]

Explanation	Invalid client accessed the Event Logger
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-EVTLOGCAPTURE : Event Logger Capture Error [dec] [dec]

Explanation	Failure during Event Logger capture
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-EVTLOGREGISTER : Event Logger Registration Error [dec] [dec] [dec]

Explanation	Failure during Event Logger client registration
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-REPLYMSGSIZE : Reply message is too large: [chars]: [dec]

Explanation	read update message won't fit into xdr buffer
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-EVTLOGCONTROL : [chars]: [dec]

Explanation	General Event Logger Controller error

%MFI-3-EVTLOGCONTROL : [chars]: [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-BADREADUPDATESIZE : Read update reply message from RP has bad size: [dec]

Explanation	read update message does not match the read message parse result
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-PNDMSGMGR : [chars] [chars] [dec] [dec] [dec]

Explanation	Only one outstanding request is allowed from same process
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-4-NOCLIENTREQ : [chars] [chars]: [dec] [dec] [dec]

Explanation	Client reply could not find an outstanding request
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-LCPULSE : LC pulse failed: [chars] [dec]

Explanation	LC pulse request operation failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-MFICOMM : [chars]

Explanation	MFI General Communication Module
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-MFICOMM2 : [chars]: [hex] [hex]

Explanation	MFI General Communication Module
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-MFICOMM3 : [chars]: [hex] [hex] [hex]

Explanation	MFI General Communication Module
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-4-MFICOMM_WARN_1 : [chars]: [hex]

Explanation	MFI General Communication Module
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-CLIENT_INTF : [chars]: [hex] [hex]

Explanation	Client Interface

%MFI-3-CLIENT_INTF : [chars]: [hex] [hex]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-MPLS_MTU_SET : [chars] [dec] [chars] [chars] [chars] [dec][chars]

Explanation	Most drivers will be able to support baby giants and will gracefully drop packets that are too large. Certain drivers will have packet forwarding problems including data corruption.
Recommended Action	Please increase the interface mtu on all routers connected to this interface to the needed mtu size using **mtu _bytes_** command.

MFIB

%MFIB-6-PAK_TTL_ONE_V4 : IPV4 Multicast Packet received with ttl <= 1

Explanation	An IP non-linklocal multicast packet received with ttl 1
Recommended Action	No action is required.

%MFIB-6-PAK_TTL_ONE_V6 : IPV6 Multicast Packet received with ttl <= 1

Explanation	An IPv6 non-linklocal multicast packet received with ttl 1
Recommended Action	No action is required.

%MFIB-6-PAK_TOO_SHORT : Packet too short from [chars], datagram size [dec], tl [dec]

Explanation	An IP/IPv6 packet which is too short was received
Recommended Action	No action is required.

%MFIB-3-NETWORK_GET_FAIL : MFIB can not get network offset: datagram [hex]; network [hex]

Explanation	The MFIB failed to find a suitable packet network offset

%MFIB-3-NETWORK_GET_FAIL : MFIB can not get network offset: datagram [hex]; network [hex]

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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-NETWORK_SET_FAIL : MFIB can not set network offset: datagram [hex]; length [dec]; offset [dec]

Explanation	The MFIB failed to set offset within packet
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-MFIB_CTXT_DEPTH_EXCEEDED :

Explanation	MFIB has exceeded maximum number of switching contexts
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-ADJ_GSB_REGISTER :

Explanation	Could not register an adjacency GSB identifier
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-ADJ_GSB_INIT :

Explanation	Could not initialise the adjacency GSB memory pool
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-SR_ADJ_GSB_REGISTER :

Explanation	Could not register an SR adjacency GSB identifier
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-SR_ADJ_INCORRECT_ADD : A different MFIB Service Reflect adj is being added

Explanation	A different SR adjacency subblock is being added to the adjacency without first removing the existing one. This indicates that SR forwarding may no longer work correctly
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-SR_ADJ_GSB_INIT :

Explanation	Could not initialise the SR adjacency GSB memory pool
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-MRIB_PROCESS : [chars][chars]

Explanation	The MFIB process which intefaces with the MRIB failed to start. The MFIB will be unusable.
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-6-MFIB_HEADER_LIMIT_EXCEEDED : [dec] at [chars]

Explanation	MFIB attempted to exceed maximum number of replicated packet header buffers
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-6-MFIB_POOL_GETBUFFER_FAILURE :

Explanation	MFIB has failed in an attempt to retrieve a particular type of memory. The MFIB will continue using another memory area
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. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-ILLEGALARGS : Illegal arguments - [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-DECAP_OCE_CREATION_FAILED : Decap OCE creation failed for [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-WIRE_LOOKUP_OR_ALLOC_FAILED : Lookup or allocation of MFIB wire failed

Explanation	Lookup or allocation of MFIB wire failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation	Initialization of the specified subblock data structure could not be accomplished.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MFIB_PLTF through MOBILITYD_LOG

- MM_NODE_LOG

- MOBILITYD_LOG

MFIB_PLTF

%MFIB_PLTF-3-UPDATE_SET_MEMORY : [chars] [IPV6 address] -> [chars] [[IPV6 address] ([IPV6 address]/[chars])]

Explanation	Failed to allocate memory for platform transaction.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%MFIB_PLTF-3-TRANSACTION_MEMORY : [dec] [dec]

Explanation	Failed to allocate memory for platform transaction.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%MFIB_PLTF-3-HANDLE_CONSTRAINT : [chars] [IPV6 address]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-TABLE_HANDLE_BAD : [chars]. [IPV6 address]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-ENTRY_HANDLE_BAD : [chars]. [IPV6 address]

Explanation	An internal software error occurred.

%MFIB_PLTF-3-ENTRY_HANDLE_BAD : [chars]. [IPV6 address]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-IOITEM_HANDLE_BAD : [chars]. [IPV6 address]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-TABLE_LOCK_FAIL : [chars]. [chars] table [IPV6 address] [IPV6 address] ([IPV6 address]/[chars])

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-TABLE_UNLOCK_FAIL : [chars]. [chars] table [IPV6 address] [IPV6 address] ([IPV6 address]/[chars])

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-ENTRY_LOCK_FAIL : [chars]. [chars] entry [IPV6 address] [chars] [[IPV6 address] ([IPV6 address]/[chars])]

Explanation	An internal software error occurred.

%MFIB_PLTF-3-ENTRY_LOCK_FAIL : [chars]. [chars] entry [IPV6 address] [chars] [[IPV6 address] ([IPV6 address]/[chars]])]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-ENTRY_UNLOCK_FAIL : [chars]. [chars] entry [IPV6 address] [chars] [[IPV6 address] ([IPV6 address]/[chars]])]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-IOITEM_LOCK_FAIL : [chars]. [chars] ioitem [IPV6 address] [chars] [chars] [[IPV6 address] ([IPV6 address]/[chars]])]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-IOITEM_UNLOCK_FAIL : [chars]. [chars] ioitem [IPV6 address] [chars] [chars] [[IPV6 address] ([IPV6 address]/[chars]])]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-ENTRY_DUPLICATE_ADD : [chars] entry [chars] [[IPV6 address] ([IPV6 address]/[chars]])]

Explanation	An internal software error occurred.

%MFIB_PLTF-3-ENTRY_DUPLICATE_ADD : [chars] entry [chars] [[IPV6 address] ([IPV6 address]/[chars])]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-IOITEM_DUPLICATE_ADD : [chars] ioitem [chars] [chars] [[IPV6 address] ([hex]/[chars])]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-ANNOT_TOO_LONG : [chars] [IPV6 address] [dec]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-CALLBACK_RETURN_INVALID : [chars]. [IPV6 address] [IPV6 address] [IPV6 address]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation	Initialization of the specified subblock data structure could not be accomplished.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-XDRISSUREGERROR : ISSU client [chars] ([dec]), entity [dec], failed ISSU registration: [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MFI_LABEL_BROKER

%MFI_LABEL_BROKER-3-UNREG_LDM : [chars]

Explanation	An MPLS application requested label broker services without registering first.
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold> and <CmdBold>show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-DUPREG_LDM : [chars]

Explanation	An MPLS application is registering multiple times with the label broker.
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold> and <CmdBold>show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-INVALID_PROC_EVT : [chars][dec][chars][dec]

Explanation	The MFI Label Broker received an invalid process event from the IOS-on-Neutrino infrastructure.
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold> and <CmdBold>show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-INVALID_LDM : [dec]

Explanation	The MFI Label Broker received a (un)registration request from an invalid MPLS application.

%MFI_LABEL_BROKER-3-INVALID_LDM : [dec]

Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold> and <CmdBold>show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-NULL_KEY :

Explanation	The MFI Label Broker received a null key pointer
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold> and <CmdBold>show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-INVALID_PID : LDM([dec]), PID([dec])

Explanation	The MFI Label Broker received a registration request with invalid PID.
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold> and <CmdBold>show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-INVALID_LABEL : [dec]

Explanation	The MFI Label Broker received a request to allocate an invalid label.
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold> and <CmdBold>show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-INVALID_PARAM : [chars]

Explanation	The MFI Label Broker received an invalid parameter in a request to allocate or free a local label.
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold> and <CmdBold>show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-MULTIPLE_BIND : Label [dec] in table [dec], [chars], [chars] [p/bm [dec]/[hex]],ldm request info: [chars]

Explanation	The MFI Label Broker received a request to bind the label to a prefix, but the label is already bound to another prefix.
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold>, <CmdBold>show running-config** and **show mpls forwarding-table** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-DELETE_MOI_FAIL : Label [dec] in table [dec], [chars], [chars]

Explanation	The MFI Label Broker could not honor a request to immediately handle the process restart of the application indicated. It will try to handle it in the background
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold>, <CmdBold>show running-config** and **show mpls infrastructure label-broker ldm** (this latter command is present only when **service internal** is enabled) and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-IMMEDIATE_LDM_RESTART : application [chars]

Explanation	
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold> and <CmdBold>show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-NO_ACTIVE_LABEL : [chars] Label [dec] in table [dec], [chars] [hex]

Explanation	The MFI Label Broker encountered a situation where there is no currently active label for applications to use for the FEC indicated.
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold>, <CmdBold>show running-config**, **show mpls forwarding-table internal** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-LABEL_PROGRAM_FAIL : Label [dec] in table [dec], for [chars]

Explanation	The MFI Label Broker was unable to program the label in question for the mentioned FEC.

%MFI_LABEL_BROKER-3-LABEL_PROGRAM_FAIL : Label [dec] in table [dec], for [chars]

Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold>**, **<CmdBold>show running-config**, **show mpls forwarding-table internal** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-OS_NOTIFY : Process id [dec] [chars], error code [dec]

Explanation	The MFI Label Broker was unable to notify the operating system about (un)registration of the specified process.
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version<NoCmd Bold>**, **<CmdBold>show running-config**, **show mpls infrastructure label-broker ldm** and contact your Cisco technical support representative.

MGCP_APP

%MGCP_APP-6-PROCESS_CREATION_FAILED : Cannot create MGCP application process

Explanation	Failed to create the MGCP application process.
Recommended Action	Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-SOCKET_OPEN_FAILED : Failed to open UDP port for MGCP

Explanation	Failed to open UDP port for the MGCP process.
Recommended Action	Check if any other application use the same UDP port number (2427).

%MGCP_APP-6-CALL_REC_DATABASE_FAILED : Failed to create call record database

Explanation	Failed to create call record database.
Recommended Action	

%MGCP_APP-6-DIGIT_MAP_DATABASE_FAILED : Failed to create digit map database

Explanation	

%MGCP_APP-6-DIGIT_MAP_DATABASE_FAILED : Failed to create digit map database

Recommended Action	Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-TRANS_ID_DATABASE_FAILED : Failed to Trans Id database

Explanation	Failed to create transaction id database.
Recommended Action	Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-TIMER_QUEUE_FAILED : Failed to create Timer watched queue

Explanation	Failed to create Timer watched queue.
Recommended Action	Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-DNS_QUEUE_FAILED : Failed to create DNS message watched queue

Explanation	Failed to create DNS message watched queue.
Recommended Action	Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-TFTP_QUEUE_FAILED : Failed to create TFTP message watched queue

Explanation	Failed to create TFTP message watched queue.
Recommended Action	Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-SYS_QUEUE_FAILED : Failed to create MGCP system message watched queue

Explanation	Failed to create MGCP system message watched queue.
Recommended Action	Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-GEN_INIT_FAILED : Failed to initialize MGCP services

Explanation	Failed to initialize MGCP services.
Recommended Action	Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-GEN_INIT_NO_IP_INTF_FAILED : Suspended initialization of MGCP services. No IP interface up yet

Explanation	Suspended initialization of MGCP services. No IP interface up yet
Recommended Action	Make sure there is atleast one interface configured with an IP Address

%MGCP_APP-6-RTP_SERVICES_INIT_FAILED : Failed to start VOIP call leg

Explanation	Failed to start VOIP call leg.
Recommended Action	Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-NEDB_SETUP_FAILED : Failed to Initialize MGCP Notified Entity Database

Explanation	Failed to Create Initialize MGCP Notified Entity Database Resources.
Recommended Action	Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-CCAPI_APP_REGISTER_FAILED : Failed to register MGCP Application with CCAPI

Explanation	Failed to register MGCP Application with CCAPI.
Recommended Action	Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-EVT_NODE_ALLOC_FAILED : Failed to allocate memory for event node

Explanation	Failed to allocate memory for event node.
Recommended Action	Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-MGCP_SHUTDOWN_COMPLETE : MGCP Shutdown has completed

Explanation	MGCP will complete shutdown after all voice interfaces go back onhook
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MGCP_APP-6-MGCP_SHUTDOWN_FAILED : MGCP services intitialization in progress. Shutdown request failed.

Explanation	Unable to shutdown MGCP services while initialization is in progress.
Recommended Action	Wait for MGCP services initializtion to complete,. Retry shutdown.

%MGCP_APP-6-MGCP_CONTROL_BIND_REMOVED : MGCP control bind command is being removed, interface not found

Explanation	Unable to find bound interface
Recommended Action	Reconfigure control bind command for MGCP.

%MGCP_APP-6-MGCP_MEDIA_BIND_REMOVED : MGCP media bind command is being removed, interface not found.

Explanation	Unable to find bound interface
Recommended Action	Reconfigure media bind command for MGCP.

%MGCP_APP-6-MGCP_BIND_REMOVED : Bind commmand removed from this interface because of active SGCP/MGCP calls.

Explanation	There are active calls because of this Bind command for control and media will be removed
Recommended Action	Configure bind command when there are no active SGCP/MGCP calls.

%MGCP_APP-6-MGCPAPP_FALLBACK_DEACTIVATED : The gateway is out of fallback mode

Explanation	Communication with call agent is reestablished
Recommended Action	No action needed

%MGCP_APP-6-MGCPAPP_FALLBACK_ACTIVATED : The gateway is in fallback mode

Explanation	Communication with call agent is disrupted
Recommended Action	The connectivity between gateway and CA must be reestablished

%MGCP_APP-6-MGCPAPP_FALLBACK_TIMER_FAIL : Unable to start fallback timer

Explanation	Failed to start the keepalive message timer
Recommended Action	Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-MGCP_CHUNK_DESTROY_FAILED : Chunk pool [chars] ([IPV6 address]) could not be destroyed. Possible memory leak.

Explanation	Chunks within the pool are probably still allocated.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MLDP

%MLDP-2-PROCESS_ERR : Error initializing MLDP process

Explanation	Can't start the MLDP process
Recommended Action	No action is required.

%MLDP-2-MRIB_PROCESS_ERR : Error initializing MLDP MRIB process

Explanation	Can't start the MLDP MRIB process
Recommended Action	No action is required.

%MLDP-2-CHUNK_ERR : Error initializing MLDP db chunks

Explanation	Error initializing MLDP db chunks
Recommended Action	No action is required.

%MLDP-2-RADIX_DB_ERR : Error initializing MLDP DB radix tree

Explanation	Error initializing MLDP_DB radix ree

%MLDP-2-RADIX_DB_ERR : Error initializing MLDP DB radix tree

Recommended Action	No action is required.

%MLDP-2-FEC_ERR : Error, the FEC size is too large

Explanation	The FEC size is too large
Recommended Action	No action is required.

%MLDP-2-PEER_ERR : Received attached address [IP_address], but there is no LDP peer

Explanation	Internal error
Recommended Action	No action is required.

%MLDP-2-RADIX_BRANCH_ERR : Error initializing MLDP BRANCH radix tree

Explanation	Internal error
Recommended Action	No action is required.

%MLDP-5-ADD_BRANCH : [chars] Root: [IP_address], Add [chars] branch [chars] [chars]

Explanation	Logging of changes to mLDP branch
Recommended Action	No action is required.

%MLDP-5-MODIFY_BRANCH : [chars] Root: [IP_address], Modify [chars] branch [chars] [chars]

Explanation	Logging of changes to mLDP branch
Recommended Action	No action is required.

%MLDP-5-DELETE_BRANCH : [chars] Root: [IP_address], Delete [chars] branch [chars] [chars]

Explanation	Logging of changes to mLDP branch
Recommended Action	No action is required.

%MLDP-5-MODIFY_NBR : [chars] Root: [IP_address], Modify [chars] entry peer [chars] [chars]

Explanation	Logging of changes to mLDP entry peer
Recommended Action	No action is required.

%MLDP-4-DB_BRANCH_DEL_PENDING : [chars] tree, with LSM ID: [hex] has both IPv4 and IPv6 del_pending set

Explanation	An mLDP database entry has both the IPv4 and IPv6 del_pending flags set to TRUE -- This is an inconsistent state
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MLDP-2-INTERNAL_ERR : Internal mLDP error

Explanation	Internal error
Recommended Action	No action is required.

%MLDP-5-ROUTING_LOOP : There is a routing loop for this root.

Explanation	There is a routing loop for this root
Recommended Action	No action is required.

%MLDP-2-FEC_CHUNK_ERR : Error initializing MLDP FEC chunks

Explanation	Error initializing MLDP FEC chunks
Recommended Action	No action is required.

%MLDP-2-FEC_TBL_ERR : Error initializing MLDP FEC tbl

Explanation	Error initializing MLDP FEC tbl
Recommended Action	No action is required.

%MLDP-2-FEC_NTF_ERR : Error initializing MLDP FEC notifier

Explanation	Error initializing MLDP FEC notifier
Recommended Action	No action is required.

%MLDP-2-FILTER_CHUNK_ERR : Error initializing MLDP filter chunks

Explanation	Error initializing MLDP filter chunks
Recommended Action	No action is required.

%MLDP-2-FILTER_TBL_ERR : Error initializing MLDP filter tbl

Explanation	Error initializing MLDP filter tbl
Recommended Action	No action is required.

%MLDP-2-FILTER_NTF_ERR : Error registering MLDP filter FEC notifier

Explanation	Error registering MLDP filter FEC notifier
Recommended Action	No action is required.

%MLDP-2-HA_INSERT_ERR : Error inserting node into MLDP HA radix tree

Explanation	Error inserting node into MLDP HA radix tree
Recommended Action	No action is required.

%MLDP-2-ID_RESERVE_ERR : Error reserving id for mldp database

Explanation	Error reserving id for mldp database
Recommended Action	No action is required.

%MLDP-2-PEER_NOT_FOUND : Peer doesn't exist while syncing to standby

Explanation	Peer doesn't exist while syncing to standby
Recommended Action	No action is required.

%MLDP-2-ROOT_NOT_FOUND : Root doesn't exist while syncing to standby.

Explanation	Root doesn't exist while syncing to standby
Recommended Action	No action is required.

MMA

%MMA-3-MEM : Memory [chars] failed - [chars]

Explanation	Memory creation failed during the initialization
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-LIST : Failed to [chars] list [chars]

Explanation	A list operation failed. This could be caused by memory corruption
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-PROV : [chars]

Explanation	A fatal error happened during provision
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-PARSER : [chars]

Explanation	Error during register parser or parsing CLI
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-INV_MONITOR : The flow monitor pointer is invalid

Explanation	An internal error occurred. The performance-monitor monitor pointer saved in the common monitor is NULL
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-INV_COMMON_MONITOR : The common monitor pointer is invalid

Explanation	An internal error occurred. The common monitor pointer saved in the performance-monitor monitor is NULL
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-INV_MONITOR_TYPE : The monitor type [dec] is invalid

Explanation	An internal error occurred. The monitor type is out of the range
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-INV_DB_OBJ : Internal error, mma db pointer invalid

Explanation	No valid pointer to mma db

%MMA-3-INV_DB_OBJ : Internal error, mma db pointer invalid

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-DB : [chars]

Explanation	Error during managing MMA database
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-MCOL : [chars]

Explanation	Error during collecting metrics in MMA PI
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-FIELD : [chars]

Explanation	Error during initializing a field
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-CHUNKCREATE : Failed to chunk create memory for [chars]

Explanation	Unable to chunk create memory chunk
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-CHUNKDESTROY : Failed to chunk destroy memory for [chars]

Explanation	Unable to chunk destroy memory chunk
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-CHUNKMALLOC : Failed to malloc chunk memory for [chars]

Explanation	Unable to malloc memory chunk, malloc failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-FLOW_EXCEED : The number of flows has exceeded 95%% of the configured maximum flow. [chars]

Explanation	This is warning message if the flow size exceeds the maximum value
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-FLOW_NONEXCEED : The number of flows is below 85%% of the configured maximum flow. [chars]

Explanation	This is info message if the flow size falls below the maximum value
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-CACHE_OVERFLOW : The number of flows has exceeded 95%% of the configured size, monitor [chars], please increase cache size

Explanation	This is warning message if the flow size exceeds the maximum value

%MMA-3-CACHE_OVERFLOW : The number of flows has exceeded 95%% of the configured size, monitor [chars], please increase cache size

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-INV_REACT : react is not valid - [chars]

Explanation	This is an internal error, the saved react info is corrupted
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-INV_ACTION_OBJ : action object is not valid - [chars]

Explanation	This is an internal error, the saved action object info is corrupted
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-NULLHIST : A history bucket does not exist

Explanation	An internal error occurred. Try to access a null history
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-NULLFLOW : A flow does not exist

Explanation	An internal error occurred. Try to access a null flow
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-INV_ARG : The argument is not valid - [chars]

Explanation	An internal error occurred. The argument for an internal API is not valid
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-RM_SET : [chars]

Explanation	An error happened during setting of Resource Manager event
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]

Explanation	For a request from upper MMA software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck binding that cannot be established etc. In rare cases this could also affect other operations such as feature activation.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%MMA-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation	For a request from upper MMA software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck binding that cannot be established etc. In rare cases this could also affect other operations such as feature activation.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%MMA-2-IPC_INIT : IPC message handler registration failure, rc [int]

Explanation	Registering an IPC message handler for the MMA feature failed. This will cause the feature to not function.
Recommended Action	This is normally a software issue. The consequences are that the MMA feature will not function. LOG_STD_ACTION

MMIF_LOG

%MMIF_LOG-4-ANCHOR_RESP_PROFILE_MISMATCH : Export anchor required but config is incorrect, sending export anchor deny mismatch for: Wlan-Profile: [chars], Policy Profile: [chars], client mac: [hex]:[hex]:[hex]:[hex]:[hex]:[hex]

Explanation	Export anchor required but config is incorrect: sending export anchor deny mismatch
Recommended Action	If this message occurs, it implies that configuration should be checked for wlan and policy profile

%MMIF_LOG-4-ANCHOR_RESP_LOCAL_DELETE : Export anchor required but internal error occurred (e.g.: out of resources), sending export anchor deny for: Wlan-Profile: [chars], Policy Profile: [chars], client mac: [hex]:[hex]:[hex]:[hex]:[hex]:[hex]

Explanation	Export anchor required but internal error occurred (e.g.: out of resources)
Recommended Action	If this message occurs, it implies that internal error occurred and needs further debugging.

MM_INFRA_LOG

%MM_INFRA_LOG-3-INVALID_PKT_RECVD : Invalid outgoing msgReceived an invalid packet from source endpoint: [chars]. [chars]

Explanation	
Recommended Action	Please check mobility configuration to see if it needs correction. If the problem persists, open a case with the TAC via the Internet action, or contact your Cisco technical support representative and provide the representative with the gathered information.

%MM_INFRA_LOG-2-INIT_FAILED : [hex][hex].[hex][hex].[hex][hex]: Unable to send [chars] to [chars].[hex][hex].[hex][hex].[hex][hex]: Unable to send [chars] to [chars]. Reason: [chars].Unable to receive mobility message [chars] from [chars]. reason: [chars][hex][hex].[hex][hex].[hex][hex]: Unable to process the received mobility message [chars] from [chars]. reason: [chars]Failed to allocate memory for [chars]Failed to deallocate memory for [chars]Error while initializing mobility daemon. [chars]

Explanation	Unable to send a mobility packetUnable to send a mobility packetUnable to receive a mobility packetError while initializing mobility daemon
Recommended Action	If this error is seen, it is recommended that the controller's mobility configuration be redone as it may have been lost. If you still require assistance, open a case with the Technical Assistance Center via the Internet or contact your Cisco technical support

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%MM_INFRA_LOG-0-MOBILITY_TASK_FAILED_TO_START : Unable to allow user [chars] into the system. [chars]Unable to create mobility state for user [chars][chars] task could not be started. The system will be rebooted

Explanation	Unable to allow the user into the system for the reported reason
Recommended Action	The mobility services failed to start correctly

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MM_LOG

%MM_LOG-1-GUEST_LAN_ANCHORS_DOWN : All Export-Anchors are down on Guest LAN [dec]

Explanation	All Export-Anchors are down on Guest LAN
Recommended Action	If this message occurs, it implies that there is loss of network connectivity between the WLC and the export anchors for this guest LAN. It is recommended that the network and the status of the anchors be debugged for connectivity issues.

MM_NODE_LOG

%MM_NODE_LOG-3-MEMBER_DEL_FAILED : Mobility [chars] tunnel to peer [chars] changed state to [chars]Peer_ip is conflicting with system ip [chars]Could not add Mobility Member. Reason: [chars], IP: [chars]Could not delete Mobility Member. Reason: [chars], IP: [chars]

Explanation	Mobility tunnel state change message.PeerIp is conflicting with System Management Ip.Could not add Mobility Member for the given reason. Mobility Member deletion from the list failed
Recommended Action	Please check if the mobility member to be deleted exists

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%MM_NODE_LOG-3-SOCK_SET_ADDRESS_OPTION_FAILED : Adding Mobility member (IP: [chars]: [chars])Deleting Mobility member (IP: [chars])Updating Mobility member (Index:[dec], IP: [chars], group: [chars])Failed to allocate memory for [chars]Failed to deallocate memory for [chars]Failed to register callback for interface changesReceived an invalid PMK-update from [chars]. [chars]. Received PMK-delete from [chars] with no Station address TLV. Received an invalid Nonce-update from [chars]. [chars]. Failed to [chars] a socket. [chars] Failed to [chars] a socket. Reason: [chars].

Explanation	A Socket operation is failedA Socket operation is failed. Multicast mode will not work for mobility
Recommended Action	Try setting the local group multicast address again. If the same error is seen, disable the multicast-mode for mobility and

%MM_NODE_LOG-3-SOCK_INVALID_MULTICAST_ADDRESS : Setting [chars] multicast group [chars] on the mobility sockets. Mobility group local multicast address has invalid setting: [int].[int].[int].[int]. Resetting it to 0.0.0.0 and disabling mobility multicast

Explanation	Multicast group membership was set on the socket. Mobility multicast group address configuration was found invalid. It may have been corrupted during config transfer
Recommended Action	Configure the address again by using cmd: config mobility multicast-mode enable multicast_address

%MM_NODE_LOG-3-PEER_PING_FAILED : Mobility ping to [chars] rejected. [chars]

Explanation	Mobility ping rejected
Recommended Action	Please check the ping command issued

%MM_NODE_LOG-3-PEER_PING_VERSION_UNKNOWN : Mobility ping to [chars] rejected. [chars]

Explanation	Mobility ping version unknown
Recommended Action	Please check if the controllers in the mobility list can interOp and

%MM_NODE_LOG-3-PING_SEND_FAILED : Failed to send a [chars] ping to [chars] . Reason: [chars].

Explanation	Failed to send a ping
Recommended Action	Please check mobility configuration to see if it needs correction

%MM_NODE_LOG-4-MEMBER_DOWN : Drop [chars] ping from [chars]. [chars]Updating Mobility member IP in heartbeat list (MAC: [hex]:[hex]:[hex]:[hex]:[hex]:[hex],, oldIP: [chars], newIP: [chars])Error updating Mobility member IP in heartbeat list (MAC: [hex]:[hex]:[hex]:[hex]:[hex]:[hex],, oldIP: [chars], newIP: [chars])Error adding Mobility member to heartbeat list (MAC: [hex]:[hex]:[hex]:[hex]:[hex]:[hex], IP: [chars])Error adding Mobility member to heartbeat list (IP: [chars])Error deleting Mobility member from heartbeat list (MAC: [hex]:[hex]:[hex]:[hex]:[hex]:[hex], IP: [chars])Error deleting Mobility member from heartbeat list (IP: [chars])[chars] path to mobility member [chars] is DOWN

Explanation	Mobility ping response DroppedA path to mobility member is DOWN
Recommended Action	If this message occurs, it implies that there is loss of network connectivity between the WLC and one of its mobility peers. It is recommended that the network and the status of the peers be debugged for connectivity issues.

%MM_NODE_LOG-1-ANCHORS_DOWN : [chars] path to mobility member [chars] is UPDeleted ping receiver entry ([chars]) from heartbeat list for WLAN ([dec])Unable to send multicast mobility message. [chars]Error in [chars] while setting local mobility group multicast IP address [int].[int].[int].[int]. Please disable mobility multicast-mode if this error continues[chars] message received is missing payload [chars][chars] handshake failed for [int].[int].[int].[int] HB is down, need to re-initiate DTLS handshakeFailed to set path MTU to fast path for peer IP: [chars]Capwap path MTU discovery error: [chars]All Export-Anchors are down

Explanation	A path to mobility member is UPMobility is unable to use multicast for messagingMobility is unable to use multicast for messagingError during DTLS handshakeMobility path MTU discovery failureAll Export-Anchors are down on WLAN
Recommended Action	If this message occurs, it implies that there is loss of network connectivity between the WLC and the export anchors for this WLAN. It is recommended that the network and the status of the anchors be debugged for connectivity issues.

MOBILITYD_LOG

%MOBILITYD_LOG-2-INIT_FAILED : Error while initializing mobility daemon. [chars]

Explanation	Error while initializing mobility daemon
Recommended Action	If this error is seen, it is recommended that the controller's mobility configuration be redone as it may have been lost. If you still require assistance, open a case with the Technical Assistance Center via the Internet or contact your Cisco technical support

MONITOR through MPLS_TE_NSR

- MONITOR
- MPLSIFMIB
- MPLSMFISTATIC
- MPLS_FORWARDING
- MPLS_IPRM
- MPLS_LABEL
- MPLS_PACKET
- MPLS_PSC
- MPLS_TE_HA
- MPLS_TE_NSR

MONITOR

%MONITOR-3-VPN_EVENT : ipsec : [chars] : [dec] events, MSGDEF_LIMIT_FAST

Explanation	Crypto failure count hits limit. This message is just a warning, not an error.
Recommended Action	LOG_STD_ACTION

%MONITOR-3-VARSETFAIL : ROM monitor variable set of [chars] failed.

Explanation	The system could not set a ROM Monitor variable. This condition typically occurs when no ROM monitor memory is available to save the variable. The ROM monitor memory is most likely already filled with configuration **boot** commands.
Recommended Action	Enter the **show bootvar** command and check the output to see if there is anything unusual with the system. Try to reduce the number of configuration boot commands.

%MONITOR-3-VARRESTFAIL : ROM monitor variable restoration of [chars], failed.

Explanation	The new ROM monitor variable could not be written to memory, and the ROM monitor variable could not be restored to its original value.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** and **show bootvar** 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 tech-support** and **show bootvar** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

MPLSIFMIB

%MPLSIFMIB-3-GENERAL : [chars]

Explanation	Probable memory corruption of mpls layer subblock -- cause unknown.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLSMFISTATIC

%MPLSMFISTATIC-3-FCALLFAILED : [chars]

Explanation	MPLS MFI Static Application function call return error

%MPLSMFISTATIC-3-FCALLFAILED : [chars]

Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%MPLSMFISTATIC-3-INVALIDPRAMS : [chars] [dec]

Explanation	Unexpected MPLS MFI Static Application parameter error
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%MPLSMFISTATIC-3-WRONGCODEPATH : [chars]

Explanation	Unexpected MPLS MFI Static Application code path error
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%MPLSMFISTATIC-3-CHUNKMGR : [chars] [hex]

Explanation	MPLS MFI Static Application chunk manager error has occurred.
Recommended Action	Problem may be due to a low memory condition on the device. Check system memory and minimum memory requirements for this release and configuration, and add memory if required. If memory appears to be sufficient and problem persists, refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show process memory**, **show version** and **show running-config** and contact your Cisco technical support representative.

MPLS_FORWARDING

%MPLS_FORWARDING-2-CAUSE_THROTTLE_ERR : Allocation of mpls throttle [chars] memory failed

Explanation	Allocation of memory resource use by mpls throttle fail
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_IPRM

%MPLS_IPRM-3-PATH_LABEL_GET : [chars]

Explanation

Recommended Action

%MPLS_IPRM-3-PATH_LABEL_GET : [chars]

Explanation	An attempt to access MPLS forwarding information for the specified prefix has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-PATH_LABEL_UPD : [chars]

Explanation

Recommended Action

%MPLS_IPRM-3-PATH_LABEL_UPD : [chars]

Explanation	An attempt to update MPLS forwarding information for the specified prefix has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-PATH_LABEL_DEL : [chars]

Explanation

Recommended Action

%MPLS_IPRM-3-PATH_LABEL_DEL : [chars]

Explanation	An attempt to delete MPLS forwarding information for the specified prefix has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-DB : [chars]

Explanation	
Recommended Action	

%MPLS_IPRM-3-DB : [chars]

Explanation	There is an inconsistency in the information required to request labels from or to process labels received from an IP label distribution module
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-DB_TABLE : [chars]

Explanation	
Recommended Action	

%MPLS_IPRM-3-DB_TABLE : [chars]

Explanation	There is an inconsistency in the information about a (vrf) tableid required to request labels from or to process labels received from an IP label distribution module
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-DB_PATH : [chars]

Explanation	
Recommended Action	

%MPLS_IPRM-3-DB_PATH : [chars]

Explanation	There is an inconsistency in the information about a prefix path required to request labels from or to process labels received from an IP label distribution module
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-DB_TRANS : [chars]

Explanation	
Recommended Action	

%MPLS_IPRM-3-DB_TRANS : [chars]

Explanation	There is an inconsistency in the information about an ongoing transaction required to populate MPLS forwarding data structures for a prefix
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-DB_PNDG_DISC : [chars]

Explanation	
Recommended Action	

%MPLS_IPRM-3-DB_PNDG_DISC : [chars]

Explanation	There is an inconsistency in the information about a temporarily deferred action required to populate MPLS forwarding data structures for a prefix

%MPLS_IPRM-3-DB_PNDG_DISC : [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-WALK : [chars]

Explanation	
Recommended Action	

%MPLS_IPRM-3-WALK : [chars]

Explanation	A request by an IP label distribution module (e.g., LDP, BGP) to walk a CEF table cannot be handled.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-INTERNAL : [chars]

Explanation	
Recommended Action	

%MPLS_IPRM-3-INTERNAL : [chars]

Explanation	An operation required for proper operation of the IP rewrite manager has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_LABEL

%MPLS_LABEL-5-CHANGED : [chars] min/max label: [int]/[int]

Explanation	The MPLS label range has changed. This message is to notify the NMS of changes.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_PACKET

%MPLS_PACKET-3-FWDDISABLE : MPLS [chars] forwarding path disabled

Explanation	MPLS forwarding plane disabled
Recommended Action	This log entry is informational only.

%MPLS_PACKET-3-FWDREENABLE : MPLS [chars] forwarding path reenabled

Explanation	MPLS forwarding plane reenabled
Recommended Action	This log entry is informational only.

%MPLS_PACKET-4-NOLFDSB : MPLS packet received on non MPLS enabled interface [chars] L3 type [hex] label {[dec] [dec] [dec] [dec]}

Explanation	MPLS packets received on an interface are being dropped as the interface is not setup to handle MPLS. This message may be seen when a mpls application is disabled on a interface and should go away when the upstream neighbor has reprogrammed its cef/mpls entries.
Recommended Action	If a MPLS application has just be disabled and traffic is flowing, then the message is expected and should be ignored. If the message recurs in steady state, the operator should monitor the network for attacks and report the occurence to Cisco.

%MPLS_PACKET-3-LABELCACHE : [chars] [dec]/[dec]

Explanation	label cache error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_PACKET-3-WRONGIDB : MPLS packet input sub interface (hwidb [chars]) does not match with main interface (hwidb [chars])

Explanation	Internal software error occurred
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_PSC

%MPLS_PSC-5-TYPE_MISMATCH : Tunnel-tp[int], type mismatch local-type: [chars], remote-type: [chars]

Explanation	The local protection type on the indicated MPLS-TP tunnel interface mismatches with the remote protection type. Local and remote protection types are provided.
Recommended Action	Examine the local and remote protection types and configure the remote protection type to the local protection type.

%MPLS_PSC-5-REVERT_MISMATCH : Tunnel-tp[int], revertive behaviour mismatch: local is [chars] but remote is [chars]

Explanation	The local revertive mode for the indicated MPLS-TP tunnel interface mismatches with the remote revertive mode. Local and remote revertive modes are provided.
Recommended Action	Examine the local and remote revertive modes and configure the remote revertive mode to the local revertive mode.

MPLS_TE_HA

%MPLS_TE_HA-3-PROCESS_CREATE_FAILED : Failed to create RSVP HA process

Explanation	system may be low on memory
Recommended Action	Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process

%MPLS_TE_HA-3-PROCESS_KILL : Killing RSVP HA process

Explanation	system may be low on memory. Failed to create RSVP HA services
Recommended Action	No action is required.

%MPLS_TE_HA-3-CF_REGISTER_FAILED : Failed to register with CF

Explanation	system may be low on memory
Recommended Action	Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-RF_REGISTER_FAILED : Failed to register with RF

Explanation	system may be low on memory
Recommended Action	Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-RF_UNREGISTER_FAILED : Failed to unregister with RF

Explanation	RSVP HA client may not have registered with RF
Recommended Action	No action is required.

%MPLS_TE_HA-3-CLI_ADD_FAILED : Failed to add RSVP HA to CLI

Explanation	system may be low on memory
Recommended Action	Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-DB_INIT_FAILED : Database init failed

Explanation	system may be low on memory
Recommended Action	Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-MSG_MGR_INIT_FAILED : Message Manager init failed

Explanation	system may be low on memory
Recommended Action	Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-ISSU_INIT_FAILED : In Service Software Upgrade (ISSU) Init failed

Explanation	system may be low on memory
Recommended Action	Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-MAIN_INIT_FAILED : Main init failed

Explanation	system may be low on memory
Recommended Action	Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-ENTRY_MOVE_FAILED : Failed to move a database entry to [chars] tree

Explanation	An attempt to move a data entry from one wavl tree to another wavl tree failed
Recommended Action	This error should never happen under normal operation and indicates an internal error. Open a ddts

%MPLS_TE_HA-3-ITEM_SIZE_TOO_BIG : Item size ([int]) bigger than default CF buffer ([int]) supported by the platform

Explanation	A database entry cannot be sent to the standby because the database entry doesn't fit in a CF maximum size buffer allowed by the platform.
Recommended Action	This error indicates a problem with design in handling platform dependent restrictions. Open a ddts

%MPLS_TE_HA-3-SSO_UNSUPPORTED : Attempt to init RSVP HA subsystem when TE SSO not supported

Explanation	RSVP TE SSO is included in image that doesn't support SSO
Recommended Action	This error indicates a problem with design in. Open a ddts

MPLS_TE_NSR

%MPLS_TE_NSR-3-RESEQUENCE_ERROR : Error occurred during TE NSR resequence

Explanation	An unrecoverable error occurred during TE NSR resequence of state

%MPLS_TE_NSR-3-RESEQUENCE_ERROR : Error occurred during TE NSR resequence

Recommended Action	Disable and then reenable TE NSR functionality and open a DDTS

MPLS_TP through MTRIE

MPLS_TP

%MPLS_TP-3-UPDOWN : Tunnel-tp[int], changed state to [chars]

Explanation	The MPLS-TP tunnel-tp interface changed state.
Recommended Action	If the state change was unexpected, confirm the configuration settings and those of other LSRs along the tunnel LSPs.

%MPLS_TP-5-REDUNDANCY : Tunnel-tp[int], switched to [chars] LSP as active

Explanation	The MPLS-TP tunnel-tp interface has changed the LSP over which it data traffic is carried, possibly due to a fault or administrative action, or to restore traffic to the working-LSP after LSP recovery.
Recommended Action	If this change is unexpected, examine LSP messages to determine if a fault or other failure has occurred, or is this is due to a lockout condition or configuration change.

%MPLS_TP-5-CONFIG_CHANGED : Tunnel-tp[int] is [chars]

Explanation	The configuration of the tunnel-tp interface has changed. This message is to notify the NMS of changes.

%MPLS_TP-5-CONFIG_CHANGED : Tunnel-tp[int] is [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_TP-5-PSCPREEMPTION : Tunnel-tp[int], PSC Event: [chars] preempted PSC State: [chars], new PSC State: [chars]

Explanation	The indicated PSC event on the tuunel interface has preempted the indicated psc event which is of lower priority. This message is to notify the NMS of changes.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_TP_BWPOOL

%MPLS_TP_BWPOOL-3-BW_POOL_CHANGED : Bandiwdth pool available to MPLS-TP has changed

Explanation	Bandwidth pool available to MPLS-TP has changed. This is either due to the removal of a link or changing to the pool through CLI configuration
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_TP_LINK

%MPLS_TP_LINK-5-CONFIG_CHANGED : Link [int], interface [chars], next-hop [chars] [chars]

Explanation	The configuration of the MPLS-TP link has changed. This message is to notify the NMS of changes.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_TP_LSP

%MPLS_TP_LSP-3-UPDOWN : [chars] LSP [chars] is [chars][chars][chars]

Explanation	The indicated MPLS-TP LSP has gone up or down. If the LSP went down, the failure condition, and the fault source information is provided.
Recommended Action	Examine the failure condition and source information to determine why the LSP went down.

%MPLS_TP_LSP-5-LOCKOUT : [chars] LSP [chars] [chars] lockout state

Explanation	The indicated LSP has entered or exited lockout state due to administrative action at one endpoint
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_TP_LSP-5-CONFIG_CHANGED : LSP [chars] is [chars]

Explanation	The configuration of the MPLS-TP midpoint LSP has changed. This message is to notify the NMS of changes.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_TP_LSP_FSM

%MPLS_TP_LSP_FSM-3-LSP_FSM_ERROR : LSP FSM Error occurred. Received event:[chars] in state:[chars]

Explanation	An erroneous event was received by the TP LSP. This is an error internal to MPLS-TP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_TP_MEM

%MPLS_TP_MEM-3-NO_MEM : Could not allocate memory for MPLS-TP context

Explanation	Could not allocate memory for MPLS-TP context. This is an internal issue to MPLS-TP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_TP_PROC

%MPLS_TP_PROC-3-PROC_CREATE_FAIL : [chars] [chars] [dec]

Explanation	Could not create MPLS-TP process. This is an internal issue to MPLS-TP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_TP_PROC-3-UNKNOWN_MESSAGE : Received unknwon message:[dec]

Explanation	An unknown message was posted to the MPLS-TP process. This is an internal issue to MPLS-TP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_TP_PROC-3-UNKNOWN_EVENT : Received unknown event: Major:[dec] Minor:[dec]

Explanation	An unknown event was posted to the MPLS-TP queue. This is an internal issue to MPLS-TP.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_TP_TIMER

%MPLS_TP_TIMER-3-UNKNOWN_TIMER_TYPE_EXPIRY : Unknown timer type expired:[dec]

Explanation	An unknown MPLS-TP timer type expired. This is an issue internal to MPLS-TP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MSG_FIFO

%MSG_FIFO-2-MSG_FIFO_CREATE : [chars]: Bad parameter to message fifo creaate [chars] = [hex]

Explanation	Failed to create message fifo, invalid memory size or other parameter.
Recommended Action	LOG_STD_ACTION

MTRIE

%MTRIE-4-MTRIECORRUPTLEAF : [IP_address]/[dec] - [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MTRIE-4-MTRIELEAFOPFAIL : [IP_address]/[dec] - [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MTRIE-4-PLACEALLOC : Failed to allocate place holder

Explanation	An internal software error occurred.

%MTRIE-4-PLACEALLOC : Failed to allocate place holder

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MTRIE-4-MTRIEMISALIGNEDNODEPTR : [hex] - [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.