

System Message Guide for Cisco IOS XE 17.18.x

System Message Guide for Cisco IOS XE 17.18.x 2

Cisco System Messages Overview 2

How To Read System Error Messages 2

Error Message Traceback Reports 4

System and Error Messages in Cisco IOS XE 17.18.x 4

Additional References 772

Full Cisco Trademarks with Software License ?

Revised: April 13, 2026

System Message Guide for Cisco IOS XE 17.18.x

Cisco System Messages Overview

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

How To Read System Error Messages

System error messages begin with a percent sign (%) and are structured as follows:`%FACILITY-SUBFACILITY-SEVERITY-MNEMONIC: Message-text`

- `FACILITY` is a code consisting of two or more uppercase letters that indicate the facility to which the message refers. A facility can be a hardware device, a protocol, or a module of the system software.
- `SEVERITY` is a single-digit code from 0 to 7 that reflects the severity of the condition. The lower the number, the more serious the situation. Table 1 lists the severity levels.
- `MNEMONIC` is a code that uniquely identifies the error message.
- `Message-text` is a text string describing the condition. This portion of the message sometimes contains detailed information about the event, including terminal port numbers, network addresses, or addresses that correspond to locations in the system memory address space. Because the information in these variable fields changes from message to message, it is represented here by short strings enclosed in square brackets (`[ ]`). A decimal number, for example, is represented as `[dec]`. Table 2 lists the representations of variable fields and the type of information in them.

The following is a sample system error message:

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

Some error messages also indicate the card and slot reporting the error. These error messages begin with a percent sign (%) and are structured as follows:

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

- `CARD` is a code that describes the type of card reporting the error. VIP and FEIP are possible card types.
- `MSG` is a mnemonic that indicates that this is a message. It is always shown as `MSG`.
- `SLOT` indicates the slot number of the card reporting the error. It is shown as `SLOT` followed by a number (for example, `SLOT5`).

The prepended portion of the error message (`%CARD-SEVERITY-MSG:SLOT`) is not shown in the error message listings in this document.

Error Message Severity Levels

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

Level	Description
0 - emergency	System unusable
1 - alert	Immediate action needed
2 - critical	Critical condition
3 - error	Error condition
4 - warning	Warning condition
5 - notification	Normal, but significant, condition
6 - informational	Informational message only
7 - debugging	Appears during debugging only

Representation of Variable Fields in Error Messages

Representation	Type of Information
[atalk_address]	AppleTalk address
[atalk_net]	AppleTalk network, either 600 or 600-601
[char]	Single character
[chars]	Character string
[dec]	Decimal number
[enet]	Ethernet address (for example, 0000.FEED.00C0)
[hex]	Hexadecimal number
[inet]	Internet address (for example, 10.0.2.16)
[int]	Integer number
[node]	Address or node name
[sci_notation]	Scientific notation
[t-line]	Terminal line number in octal (or decimal if the decimal-TTY service is enabled)
[v-name]	VINES name; or number (hex or decimal)

Error Message Traceback Reports

Some messages describe internal errors and contain traceback information. This information is very important and should be included when you report a problem to your technical support representative.

The following sample message includes traceback information:

```
-Process= "Exec", level= 0, pid= 17 -Traceback= 1A82 1AB4 6378 A072 1054 1860
```

System and Error Messages in Cisco IOS XE 17.18.x

The following tables list system and error messages and recommended actions. Scroll right to see the **Recommendation Action**. Alternatively, you can download the system and error messages in the excel format here: System Message Guide for Cisco IOS XE 17.18.x.

A to E

Facility-Severity-Mnemonic	Severity Level	Message	Message Explanation	Component	Recommended-Action
AAAMGR-5-ACCT_ACTIVATED	5-Notice	SD-WAN AAA Manager accounting has been activated	This info syslog is generated when the SD-WAN AAA manager is actively accounting configuration CLIs	cdge-aaamgr	No action is required
AAAMGR-5-ACCT_DEACTIVATED	5-Notice	SD-WAN AAA Manager accounting has been deactivated	This info syslog is generated when the SD-WAN AAA manager is not actively accounting configuration CLIs	cdge-aaamgr	No action is required

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
AAAMGR-5-AUTHZ_ACTIVATED	5-Notice	SD-WAN AAA Manager authorization has been activated	This info syslog is generated when the SD-WAN AAA manager is actively authorizing configuration CLIs	edge-aaamgr	No action is required
AAAMGR-5-AUTHZ_DEACTIVATED	5-Notice	SD-WAN AAA Manager authorization has been deactivated	This info syslog is generated when the SD-WAN AAA manager is not actively authorizing configuration CLIs	edge-aaamgr	No action is required
AAA_AUDIT_MESSAGE-6-METHOD_LIST_STATE	6-Information	mlist [chars] of [chars] service is marked for notifying state and its current state is : [chars]	Method list state change	polaris-aaa	LOG_STD_NO_ACTION
AAA_AUDIT_MESSAGE-6-NOTIFY_MLIST_STATE_TO_AAA_CLIENT	6-Information	Notifying state of [chars] method list [chars] of [chars] service as [chars]	Method list state change notified to AAA CLIENT	polaris-aaa	LOG_STD_NO_ACTION
ACCESS_SESSION_TRACE-3-TRACE_INIT_FAIL	3-Error	Access session trace initialization failed with code: [dec].	Failed to initialize access-session trace.	polaris-smd	Review smd logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
ACCESS_SESSION_TRACE-3-TRACE_REG_FAIL	3-Error	Component [chars] registration failed. Error code: [dec]	Component failed to register with access-session trace	polaris-smd	Review smd logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log.
ACLMGR_MESSAGE-3-ACL_LEN_ERR	3-Error	Error in [chars]	ewlc ACL flex push error message.	iosxe-linux-utils	LOG_STD_ACTION
ACL_ERRMSG-3-CHANGE_ERROR	3-Error	[chars] [chars] [chars] ACL [chars] change configuration could not be updated on all installed interfaces.\n	The given ACL change configuration could not be applied to all installed policies in hardware.	INVALID	Find out more about the error by using the show platform software trace messages fed command.
ACL_ERRMSG-3-ERROR	3-Error	[chars] [chars] [chars] ACL [chars] configuration could not be applied on [chars].\n	The given ACL configuration could not be applied to hardware.	INVALID	Find out more about the error by using the show platform software trace messages fed command.
ACL_ERRMSG-3-SGACL_ERROR	3-Error	SGACL configuration could not be changed on [chars].\n	An error occurred during SGACL configuration change, all SGACLs have been removed from cell.	INVALID	User needs to manually remove the cell configuration and attempt to re-apply when resources have been freed.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
ACL_ERRMSG-4-ACLTCAM_FULL	4-Warning	[chars] [chars] [chars] ACL on [chars] could not be programmed in hardware, ACL TCAM is full.\n	The configuration is too large.	INVALID	You have exceeded the system limit of ACL TCAM, use a simpler configuration which uses less ACL entries.\n
ACL_ERRMSG-4-DGT_FULL	4-Warning	[chars] [chars] [chars] ACL on [chars] could not be programmed in hardware, DGT ID table is full.\n	The configuration is too large.	INVALID	You have exceeded the system limit of DGT, use a simpler configuration which uses less DGT entries.\n
ACL_ERRMSG-4-HASH_ERROR	4-Warning	[chars] [chars] [chars] ACL on cell [chars] could not be found.\n	The configuration is unknown.	INVALID	There is no SGACL Cell with this configuration found.\n
ACL_ERRMSG-4-HASH_FULL	4-Warning	[chars] [chars] [chars] ACL on cell [chars] could not be programmed in hardware, SGACL table is full.\n	The configuration is too large.	INVALID	You have exceeded the system limit of SGACL cells, use a simpler configuration which uses less SGACL cells.\n
ACL_ERRMSG-4-HASH_ZERO	4-Warning	[chars] [chars] [chars] ACL on cell [chars] could not be programmed in hardware, sgt or mpls-vpn hash size is zero.\n	Cannot configure in hardware due to zero sgt or mpls-vpn hash entries.	INVALID	Allocate hash entries to sgt or mpls-vpn using custom template.\n
ACL_ERRMSG-4-POLICYLABEL_FULL	4-Warning	[chars] [chars] [chars] ACL on [chars] could not be programmed in hardware, Policy Label table is full.\n	The configuration is too large.	INVALID	You have exceeded the system limit of the number of Policies, use a simpler configuration which uses less Policy entries.\n
ACL_ERRMSG-4-PROGRAM_FAILED	4-Warning	[chars] [chars] [chars] ACL on [chars] programming failed in hardware.\n	The configuration is too large.	INVALID	You have exceeded the system limit of entries, use a simpler configuration which uses less entries.\n

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
ACL_ERRMSG-4-SIS_STATS_FULL	4-Warning	Policy id [dec] could not be programmed in hardware, SIS stats table is FULL.\n	The configuration is too large.	INVALID	You have exceeded the system limit of hardware resources, use a simpler configuration which uses less resources.\n
ACL_ERRMSG-4-UNLOADED	4-Warning	[chars] [chars] [chars] ACL on interface [chars] could not be programmed in hardware and traffic will be dropped.\n	The configuration is too large; dropped will be dropped on this interface.	INVALID	Allocate more space to the relevant section of the TCAM and reboot, or else use a simpler configuration. If possible, use the same ACLs on multiple interfaces.\n
ACL_ERRMSG-6-GACL_INFO	6-Information	Logging is not supported for GACL.\n	The ACL logging is not supported for client/group ACL.	INVALID	No action is needed.
ACL_ERRMSG-6-PACL_INFO	6-Information	Logging is not supported for PACL.\n	The ACL logging is not supported on port interface.	INVALID	No action is needed.
ACL_ERRMSG-6-RELOADED	6-Information	[chars] [chars] [chars] ACL on interface [chars] has now been loaded into the hardware.\n	The configuration that previously was unable to fit into the hardware will now fit and has been programmed for this interface.	INVALID	No action required, informational only.\n

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
ACL_ERRMSG-6-REMOVED	6-Information	The [chars] [chars] [chars] ACL configuration that was previously unloaded has been removed from interface [chars].\n	The configuration that was previously unloaded, because of lack of space, has been removed.	INVALID	No action required, informational only.
ACL_ERRMSG-6-THRESHOLD_EVENT	6-Information	The [chars] threshold alarm state is [chars] for switch [dec] asic [dec]; with [dec] entries used and [dec] entries remaining.\n	The configuration exceeds the threshold, because of lack of space.	INVALID	No action required, informational only.
ADMINTECH-3-INCOMPLETE_BUNDLE	3-Error	Admin-tech bundle is incomplete, IOS tech-support timed out after [dec] seconds	This syslog is generated IOS tech-support times out resulting into incomplete admin-tech. Default timeout for admin-tech is 30 mins, however on loaded systems, this timeout might not be sufficient and admin-tech could potentially time out	codeadmintech	Increase the timeout value for admin-tech with 'request platform software sdwan admin-tech timeout <>

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
ADMINTECH-3-PUBLISH_FAILURE	3-Error	Admin-tech bundle [chars] could not be uploaded to Cisco SD-WAN Manager, reason: [chars] ([dec])	This error syslog is generated when admin-tech can not be published to SD-WAN Manager over over HTTP channel. This can be due to degration in the network or control connectivity loss	edge_admintech	Retry generating admin-tech
ADMINTECH-5-PUBLISH_SUCCESS	5-Notice	Admin-tech bundle [chars] successfully uploaded to Cisco SD-WAN Manager	This notice syslog is generated when admin-tech is successfully uploaded to SD-WAN Manager after the generation is complete	edge_admintech	No action is required
AFC_SCHED-1-AFC_HTTPCON_HEALTHCHECK_FAILURE	1-Alert	AFC Healthcheck failed with HTTP connection error: [chars].	AFC Healthcheck failed due to HTTPCON error	afc	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
AFC_SCHED-1-AFC_HTTP_HEALTHCHECK_FAILURE	1-Alert	AFC Healthcheck failed with HTTP status code [dec].	AFC Healthcheck failed due to HTTP error	afc	LOG_STD_NO_ACTION
AFC_SCHED-1-AFC_PROVIDER_HEALTHCHECK_FAILURE	1-Alert	AFC Healthcheck failed : [chars].	AFC Healthcheck failed due to provider error	afc	LOG_STD_NO_ACTION
AFC_SCHED-3-AFC_CLOUDM_HEALTHCHECK_FAILURE	3-Error	AFC Healthcheck failed, can't communicate with cloud services because [chars].	AFC Healthcheck failed due cloudm communication failure	afc	LOG_STD_NO_ACTION
AFC_WNCD-1-AFC_CONDITIONS_NOT_MET	1-Alert	Some geolocation information is missing for AP with Radio MAC [chars] to use AFC:[chars]	Some conditions are preventing the AP from using AFC	afc	LOG_STD_NO_ACTION
AFC_WNCD-4-AFC_GEOLOCATION_HIGH_UNCERTAINTY	4-Warning	Current location uncertainty for AP [chars] is high ([dec] meters).	Geolocation uncertainty for the AP is above 400m	afc	LOG_STD_NO_ACTION
AFC_WNCD-6-AFC_WNCD_INFO	6-Information	Info Level - [chars]	General AFC WNCD Lib info message	ewlc-spwifi	LOG_STD_ACTION
APMGR_AUDIT_MESSAGE-3-APS_AUDIT_BSK_MCK_UNABLE_UPDATE_BROADCAST_KEYS_AP	3-Error	User ID: [chars] - Unable to update broadcast keys to AP	Unable to update broadcast keys to AP	ewlc-client	LOG_STD_ACTION
APMGR_AUDIT_MESSAGE-6-APS_AUDIT_FCS_COP_1_Data_Encryption	6-Information	AP [chars] User ID: [chars] [chars] [chars] [chars] [chars]	TACACS+ accounting parameters	ewlc-ap	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
APMGR_AWIPS_SYSLOG-6-APMGR_AWIPS_MESSAGE	6-Information	AWIPS alarm:[chars] ([dec])	AWIPS alarm detected	ewlc-awips	LOG_STD_NO_ACTION
APMGR_TRACE_MESSAGE-2-BSSID_CLEANUP_TIMEOUT	2-Critical	BSSID cleanup timeout, [chars]	BSSID cleanup could not be completed. This may result in failure to push configuration updates to Access Points. Make a note of any recent changes made to the network or the device configuration which may have triggered this and proceed to the suggested action.	ewlc-ap	Copy the error message exactly as it appears on the console or in the system log. Open a case with the Technical Assistance Center via the Internet http://www.cisco.com/cisco/web/support/index.html or contact your Cisco technical support representative and provide the representative with the gathered information. It is suggested to collect archive traces and live process core to analyse the error.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
APMGR_TRACE_MESSAGE-2-WLAN_CRIT_ERR	2-Critical	WLAN Error : [chars]	Critical issue seen with WLAN config. Make a note of any recent changes made to the network or the device configuration which may have triggered this and proceed to the suggested action.	ewlc-ap	Copy the error message exactly as it appears on the console or in the system log. Open a case with the Technical Assistance Center via the Internet http://www.cisco.com/tac or contact your Cisco technical support representative and provide the representative with the gathered information. It is suggested to collect archive traces and live process core to analyse the error.
APMGR_TRACE_MESSAGE-2-WLAN_CRIT_INFO	2-Critical	CRITICAL, [chars]	General Wireless LAN Controller critical message	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-2-WLC_APMGR_CRIT_MSG	2-Critical	CRITICAL, [chars]	General Wireless LAN Controller warning message	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-3-AP_NTP_SYNC	3-Error	AP [chars] MAC [chars], NTP sync has failed. Reason: [chars]	The Ap failed to sync with the NTP server	ewlc-ap	Verify the IP address of the NTP server and the authentication credentials.
APMGR_TRACE_MESSAGE-3-AP_RADIO_STUCK_ALARM	3-Error	Radio Stats Monitoring: [chars]	Radio stats monitoring and radio stuck alarm	ewlc-ap	No action required

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
APMGR_TRACE_MESSAGE-3-EWLC_APMGR_ANTENNA_SET_ERROR	3-Error	Antenna set error: [chars]	Antenna id enable/disable operation has resulted in error. please follow error message for details	ewlc-rrm	Please follow error message string and take corrective action
APMGR_TRACE_MESSAGE-3-EWLC_APMGR_AP_REG_DOMAIN_MISMATCH	3-Error	Error: Cannot set country code [chars] for AP MAC:[chars],Regulatory domain check failed	Regulatory domain of all radio slots of the AP does not match with the country code	ewlc-rrm	In most cases, the problem can be corrected by checking regulatory domain supported by Access Point (AP). Radios within APs are assigned to a specific regulatory domain as a part of factory setting. Configuring a country code ensures that each radio's broadcast frequency bands, channels and transmit power levels are compliant with country-specific regulations. Please ensure that user configured country code is compliant with country code setting in AP.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
APMGR_TRACE_MESSAGE-3-EWLC_APMGR_UNSUPPORTED_COUNTRY	3-Error	Regulatory domain error while setting country code for AP MAC:[chars], country code [chars] is not configured on WLC	Specified country code is not present in the configured country code list	ewlc-rrm	Validate the country code configuration on the Controller and add the country code to the configured country code list if it is not already present. Please refer to the configuration guide to configure country code. If you still require contact your Cisco technical support representative and provide the information you have gathered.
APMGR_TRACE_MESSAGE-3-EWLC_GEN_CHAN_ERR	3-Error	Error in [chars]	General Wireless LAN Controller Error Message.	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-3-EWLC_RRM_ERROR	3-Error	event change: [chars]	General Wireless LAN Controller RRM error message	ewlc-rrm	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-3-EWLC_RRM_QUERY_ERR	3-Error	Error in [chars]	Trying to query information related to AP with invalid slot ID.	ewlc-rrm	Please report the error to technical support representative.
APMGR_TRACE_MESSAGE-3-EWLC_WLAN_ETA_MSG	3-Error	et-analytics config validation Error: [chars]	Global and Wireless et-analytics config dependency error	ewlc-ap	No action required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
APMGR_TRACE_MESSAGE-3-EWLC_WLAN_MPSK_MSG	3-Error	MPSK config validation Error: [chars]	MPSK and Central auth dependency error	ewlc-ap	No action required
APMGR_TRACE_MESSAGE-3-EWLC_WLAN_MPSK_PSK_MSG	3-Error	MPSK config validation Error: [chars]	MPSK and PSK dependency error	ewlc-ap	No action required
APMGR_TRACE_MESSAGE-3-EXEC_CLI_INVALID_SLOT	3-Error	Executed exec-cli is not applicable for AP: [chars], number of slots: [dec], while cli executed for slot: [dec].	The executed EXEC CLI is not applicable for this AP, because the limitation number of slots	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-3-EXEC_CLI_NOT_5G_DUAL_RADIO_AP	3-Error	Executed exec-cli is not applicable for AP: [chars] because AP does not support dual 5ghz radio.	The executed EXEC CLI is not applicable for this AP, because AP does not support dual 5ghz radio	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-3-EXEC_CLI_NOT_MASTER_RADIO	3-Error	Executed exec-cli is applicable for only master radio for AP : [chars]	The executed EXEC CLI is applicable only for master radio	ewlc-ap	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
APMGR_TRACE_MESSAGE-3-EXEC_CLI_TX_POWER	3-Error	Tx Power Config Notification: Radio Role is AUTO. So, Tx power change is not allowed for AP [chars] on slot [dec].	Tx Power configuration is not allowed.	ewlc-rrm	LOG_STD_NO_ACTION
APMGR_TRACE_MESSAGE-3-WLC_AP_AUDIT_REPORT_ERR	3-Error	Error in [chars]	AP Audit Report Error Message.	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-3-WLC_AP_CONFIG_CHECKER_ERR	3-Error	error received from AP [chars]	Error on AP while applying configuration updates from controller.	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-3-WLC_AP_DOT11_24G_DCA_CHANNEL_LIST_EMPTY	3-Error	The DCA Channel list is empty for 24ghz rf profile [chars]	DCA Channel list for 24ghz radio is empty, it affects Channel Assignment to AP	ewlc-rrm	Please add channels to DCA List
APMGR_TRACE_MESSAGE-3-WLC_AP_DOT11_5G_DCA_CHANNEL_LIST_EMPTY	3-Error	The DCA Channel list is empty for 5ghz rf profile [chars]	DCA Channel list for 5ghz radio is empty, it affects Channel Assignment to AP	ewlc-rrm	Please add channels to DCA List

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
APMGR_TRACE_MESSAGE-3-WLC_APCONFIG_DCA_CHANNEL_LIST_EMPTY	3-Error	The DCA Channel list is empty for 6ghz rf profile [chars]	DCA Channel list for 6ghz radio is empty, it affects Channel Assignment to AP	ewlc-rrm	Please add channels to DCA List
APMGR_TRACE_MESSAGE-3-WLC_AP_JOIN_CRIT_ERR	3-Error	AP Join/Disjoin Error: [chars]	AP Join/Disjoin Wireless LAN Controller Error Message.	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-3-WLC_AP_LOG_MSG	3-Error	AP Remote Log: [chars]	AP Remote logging	ewlc-ap	No action required
APMGR_TRACE_MESSAGE-3-WLC_AP_PACKET_CAPTURE_ERR	3-Error	Error in [chars]	AP packet capture Error Message.	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-3-WLC_EXEC_MSG	3-Error	%% Error: [chars]	Improper arguments or config	ewlc-ap	Arguments to be changed
APMGR_TRACE_MESSAGE-3-WLC_GEN_ERR	3-Error	Error in [chars]	General Wireless LAN Controller Error Message.	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-3-WLC_MDNS_AP_ERROR_MSG	3-Error	Error mDNS AP : [chars]	Error Message related to mDNS AP	ewlc-ap	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
APMGR_TRACE_MESSAGE-3-WLC_UNSUPPORTED_AP_MODE_ERR	3-Error	Unsupported AP mode. [chars]	vWLC ultra-low WLCs do not support Local Mode APs. This error will be logged whenever an AP tries to join in Local Mode on a vWLC ultra-low WLC.	ewlc-ap	Fix the configuration to allow AP to join in Flexconnect Mode.
APMGR_TRACE_MESSAGE-4-AP_CPU_ALARM	4-Warning	AP [chars], MAC [chars], CPU=[dec]%%, alarm state: [dec]	An alarm was triggered for AP CPU measurements	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-4-AP_GNSS_USB_DISCONNECTED	4-Warning	AP [chars], GNSS USB Module has been removed. This might impact location availabilty and derivation for nearby APs	GNSS USB module disconnected from AP	ewlc-afc-rrm	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-4-AP_MEM_ALARM	4-Warning	AP [chars], MAC [chars], Memory=[dec]%%, alarm state: [dec]	An alarm was triggered for AP Memory measurements	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-4-AP_MERAKI_CONVERSION_FAILURE	4-Warning	AP [chars], MAC [chars], Meraki serial number: [chars], Meraki persona change result: Failed. Reason: [chars]	Conversion to Meraki AP validation result	ewlc-ap	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
APMGR_TRACE_MESSAGE-4-EASYPSK_UNSUPORTED_AP_MODE	4-Warning	Unsupported AP mode for Easy-PSK WLAN [dec] on AP [chars], MAC [chars]. Easy-PSK only supported in local mode.	Easy-PSK WLAN configured on AP not in local mode. WLAN will not be pushed to the AP.	ewlc-spwifi	Fix the configuration to move AP in local mode.
APMGR_TRACE_MESSAGE-4-WLC_APMGR_WARNING_MSG	4-Warning	Warning, [chars]	General Wireless LAN Controller warning message	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-4-WLC_CONFIG_CHECKER_WARNING	4-Warning	config check: [chars]	Warning message related to config checker	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-4-WLC_MDNS_AP_WARNING_MSG	4-Warning	Warning mDNS AP : [chars]	Warning message related to mDNS AP	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-5-AP_AFC_BELOW_TX_MIN	5-Notice	AP [chars], 6GHZ radio operating below tx min due to afc restriction	6GHZ radio operating below rf profile configured tx min due to afc restriction	ewlc-afc-rrm	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-5-AP_AFC_IMMINENT_FLAG_SET	5-Notice	AP [chars], 6GHZ radio AFC response is about to expire on AP	6GHZ AFC expiry imminent flag set	ewlc-afc-rrm	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-5-AP_COUNTRY_CODE	5-Notice	AP Name [chars] Mac: [chars] Model [chars] Type [chars] : [chars]	Resolved country code	ewlc-ap	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
APMGR_TRACE_MESSAGE-5-AP_EXEC_CLI	5-Notice	Exec CLI : [chars]	Exec cli information or output	ewlc-ap	LOG_STD_NO_ACTION
APMGR_TRACE_MESSAGE-5-EWLC_APMGR_NOTICE	5-Notice	event change: [chars]	General Wireless LAN Controller Notice message	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-5-WLC_AP_PUBLIC_CLOUD_ERR	5-Notice	Unsupported AP mode. [chars]	Public cloud WLCs do not support Local Mode in AP. This error will be logged whenever an AP tries to join in Local Mode in a Public Cloud WLC.	ewlc-ap	Fix the configuration to allow AP to join in Flexconnect Mode.
APMGR_TRACE_MESSAGE-6-AP_MERAKI_CONVERSION_SUCCESS	6-Information	AP [chars], MAC [chars], Meraki serial number: [chars], Meraki persona change result: [chars]	Conversion to Meraki AP validation result	ewlc-ap	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
APMGR_TRACE_MESSAGE-6-CHAN_ZERO_DETECTED	6-Information	AP: [chars] reported channel 0 on slot [dec]	AP has reported Channel 0 on one of the radio slots. This generally happens when the configurations on the AP are set to factory default. WLC recovers this by rebooting the AP. Unless the message repeatedly appears, it does not require any action.	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-6-CLIENT_DEBUG_BUNDLE_INFO	6-Information	Client debug bundle [chars]	General Wireless LAN Controller Client debug bundle info message	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-6-EWC_APMGR_OLD_VERSION	6-Information	AP Event: [chars] Please upgrade AP to 8.10 or 16.12 or higher before joining a EWC network	Please upgrade 11AX AP to 8.10 or 16.12 so it can join EWC network	ewcap-image	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
APMGR_TRACE_MESSAGE-6-WLC_APMGR_POLL_CCO_SUCCESS	6-Information	CCO polling for software version completed successfully	The action of polling CCO for LATEST and SUGGESTED software version has completed successfully	ewcap-image	LOG_STD_NO_ACTION
APMGR_TRACE_MESSAGE-6-WLC_APMGR_INFO	6-Information	Info : - [chars]	General Wireless LAN Controller info message	ewlc-ap	LOG_STD_ACTION
APMGR_TRACE_MESSAGE-6-WLC_AP_JOIN	6-Information	AP Join Info : [chars]	AP Join/Disjoin Wireless LAN Controller Error Message.	ewlc-ap	LOG_STD_ACTION
APP_AGENT-1-APP_AGENT_FAILURE	1-Alert	App Agent Error condition : [chars].	App Agent Error condition	ewlc-iot-gw	LOG_STD_NO_ACTION
APP_AGENT-6-APP_AGENT_CHANGE_STATE_SUCCESS	6-Information	App Agent : [chars].	App Agent Success case when changing the state during workflow	ewlc-iot-gw	LOG_STD_NO_ACTION
AP_POWER_PROFILE_TRACE_MESSAGE-3-WLC_GEN_ERR	3-Error	Error in [chars]	General Wireless LAN Controller Error Message.	ewlc-ap	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
AUTHZ_CLI_MESSAGE-3-AUTHZ_ALLOW_LIST_FILE_PROCESS_ERR	3-Error	Error : [chars]	Error in Authz Allow list file processing	ewlc-wips	LOG_STD_ACTION
AUTHZ_CLI_MESSAGE-4-AUTHZ_ALLOW_LIST_FILE_PROCESS_WARN	4-Warning	Warning: [chars]	Authz allow-list file processing warning message	ewlc-wips	LOG_STD_ACTION
AUTHZ_CLI_MESSAGE-4-AUTHZ_ALLOW_LIST_MAX_ENTRIES_WARN	4-Warning	Warning: [chars]	Authz allow-list maximum entries warning message	ewlc-wips	LOG_STD_ACTION
AUTHZ_CLI_MESSAGE-5-AUTHZ_ALLOW_LIST_FILE_PROCESS_NOTICE	5-Notice	Notice : [chars]	Authz Allow list file processing notice message	ewlc-wips	LOG_STD_NO_ACTION
AUTHZ_SYSLOG-6-AUTHZ_AP_DETECTED	6-Information	Detected [chars] by AP: [chars], on Slot: [dec], Band: [dec], Channel: [dec] with RSSI: [dec] dBm, SNR: [dec] dB, Beacon interval: [dec] ms.	A new Authz specific action has been taken.	ewlc-wips	LOG_STD_NO_ACTION
AUTHZ_SYSLOG-6-AUTHZ_CLIENT_DETECTED	6-Information	Detected [chars] by AP: [chars], on Slot: [dec], Band: [dec], Channel: [dec] with RSSI: [dec] dbm & SNR: [dec] dB.	A new Authz specific action has been taken.	ewlc-wips	LOG_STD_NO_ACTION
AUTHZ_SYSLOG-6-AUTHZ_UNCONNECTED_CLIENT_DETECTED	6-Information	[chars], with RSSI: [dec] dBm & SNR: [dec] dB.	A new Authz specific action has been taken.	ewlc-wips	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
AUTO_FPD-3-FRU_HWPRG_UPG_ERR	3-Error	Error reason:[chars]	Some error occurred during auto upgrade	iosxe-binos-utils	Retry upgrade
AUTO_FPD-3-FRU_HWPRG_UPG_FAILED	3-Error	[chars] in slot [chars] failed to program. error: [chars]	The hw programmable was upgraded failed	iosxe-binos-utils	Retry upgrade
AUTO_FPD-5-FRU_HWPRG_UPG_START	5-Notice	[chars] in slot [chars] are upgrading, please don't reload or power-cycle this card.	The hw programmable firmware is upgrading	iosxe-binos-utils	No action is required. This is informational message
AUTO_FPD-5-FRU_HWPRG_UPG_SUCCESS	5-Notice	[chars] in slot [chars] are successfully programmed.	The hw programmable was upgraded succesfully	iosxe-binos-utils	No action is required. This is informational message
AUTO_UPGRADE-3-AUTO_ADVISE_SW_COM_BUNDLED	3-Error	Switch [dec] running incompatible bundled software has been added to the stack. Switch [dec] must be running compatible bundled software in order to join the stack.	No explanation required.	iosxe-binos-utils	Boot the member with compatible software.
AUTO_UPGRADE-3-AUTO_ADVISE_SW_FAILED_PLATFORM	3-Error	Failed to determine platform hardware type of switch [dec]	Somehow the platform type could not determined.	iosxe-binos-utils	Add an action

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
AUTO_UPGRADE-3-AUTO_ADVISE_SW_MODE_UNKNOWN	3-Error	Switch [dec] has been added to the stack. Failed to initiate auto advise for switch [dec] because switch [dec] is not running installed or bundled software	No explanation required.	iosxe-binos-utils	Boot the member with compatible software.
AUTO_UPGRADE-3-AUTO_CONF_EXEC	3-Error	Auto upgrade is enabled by config. Please disable auto upgrade configuration to execute auto upgrade manually using exec CLI.	TODO: add an explanation.	iosxe-binos-utils	TODO: add an action
AUTO_UPGRADE-3-AUTO_UPGRADE_FAILED_COPY	3-Error	Failed to copy upgrade packages from [chars] [dec] to [chars] [dec]/R[dec].	TODO: add an explanation.	iosxe-binos-utils	TODO: add an action
AUTO_UPGRADE-3-AUTO_UPGRADE_FAILED_DISK	3-Error	[chars] [dec]/[dec] doesn't have enough free disk space to perform auto upgrade. A minimum of [dec] KB of free disk space is required Initiating the auto-delete of the old images on joining member/FRU. (Default is oldest image in configuration mode)	There might be older files because of which there is not enough memory.	iosxe-binos-utils	Clean up disk space in the remote switch.
AUTO_UPGRADE-3-AUTO_UPGRADE_FAILED_EXPAND	3-Error	Failed to install the running software on switch [dec]	TODO: add an explanation.	iosxe-binos-utils	No action required.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
AUTO_UPGRADE-3-AUTO_UPGRADE_FAILED_MEM	3-Error	[chars] [dec] doesn't have enough free memory to perform auto upgrade. A minimum of [dec] KB of free memory is required	There might be older files because of which there is not enough memory.	iosxe-binos-utils	Clean up disk space in the remote switch.
AUTO_UPGRADE-3-AUTO_UPGRADE_FAILED_PLATFORM	3-Error	Failed to determine platform hardware type of [chars] [dec]/R[dec]	Somehow the platform type could not determined.	iosxe-binos-utils	Add an action
AUTO_UPGRADE-3-AUTO_UPGRADE_FAILED_STATE	3-Error	A previous provisioning action is pending reboot. Please reboot the [chars] [dec].	The user has run an operation that requires a reboot to take action.	iosxe-binos-utils	Reload the switch
AUTO_UPGRADE-3-AUTO_UPGRADE_INTERNAL_ERROR	3-Error	Local chassis/RP number did not publish yet	Somehow the chassis/FRU number is missing.	iosxe-binos-utils	Try to do it again.
AUTO_UPGRADE-3-AUTO_UPGRADE_MODE_UNKNOWN	3-Error	Switch [dec] has been added to the stack. Failed to initiate auto upgrade for switch [dec] because switch [dec] is not running installed or bundled software	No explanation required.	iosxe-binos-utils	Boot the member with compatible software.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
AUTO_UPGRADE-3-AUTO_UPGRADE_NOTHING_TO_CLEAN	3-Error	Couldn't find enough old install images on incompatible standby/member for deletion. Please manually free up [dec] MB space on incompatible standby/member and try again using 'install autoupgrade'.	If there is no old images are found on joining standby/member boot directory	iosxe-binos-utils	User will have to manually delete old files using IOS delete command
AUTO_UPGRADE-3-AUTO_UPGRADE_NOTHING_TO_UPGRADE	3-Error	No incompatible standby/member is found, nothing to auto-upgrade.	Exec autoupgrade scenario when there is no incompatible member in stack.	iosxe-binos-utils	No action is required from the user
AUTO_UPGRADE-3-AUTO_UPGRADE_NOT_SUPPORTED	3-Error	The system is not running installed software. Auto upgrade for [chars] [dec]/R[dec] cannot be initiated	A system with incompatible software has been detected in the stack. The auto upgrade functionality cannot be initiated because the stack/HA system is not running installed software. The user must manually upgrade the incompatible switch/FRU.	iosxe-binos-utils	Perform the one shot cli to convert system is install mode. Boot the system from the boot directory (bootflash/harddisk) using 'boot bootflash:packages.conf'

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
AUTO_UPGRADE-3-AUTO_UPGRADE_NO_DOWNGRADE	3-Error	Skip auto-upgrade on chassis [dec]. The Active chassis's software version [chars] is lower than this chassis's minimum software version requirement [chars].	Skip auto-downgrade scenario when the active switch does not fulfill the minimum software release version requirment. The active switch is running an image lower than the remote chassis's minimum software version.	iosxe-binos-utils	Upgrade the stack to a higher release version or remove the switch from the stack.
AUTO_UPGRADE-3-AUTO_UPGRADE_PLATMISMATCH	3-Error	No software was found to upgrade [chars] [dec]/R[dec]	Happens because of incompatible switches. For example, ngwc and non-ngwc ones are incompatible	iosxe-binos-utils	Plugin compatible switches for autoupgrade to run.
AUTO_UPGRADE-3-AUTO_UPGRADE_ROMMON_NOT_UPDATED	3-Error	Unable to confirm boot config on [chars] [dec]/R[dec], assuming it is set as [chars].	TODO: add an explanation.	iosxe-binos-utils	NO action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
AUTO_UPGRADE-3-SMU_SYNC_FAILED	3-Error	SMU upgrade failed on switch [dec]. Auto upgrade of image will pass with out syncing SMUs on this switch. SMUs will be synced at boot time of the switch [dec]	SMU sync failed because of some reason.	iosxe-p-smu	No action required, SMU sync will be tried in next reload.
AUTO_UPGRADE-3-SMU_UPGRADE_FAILED_DISK	3-Error	Switch [dec] doesn't have enough free disk space to sync SMU. A minimum of [dec] KB of free disk space is required. Auto upgrade will pass with out syncing SMUs on this switch	There might be older files because of which there is not enough memory.	iosxe-p-smu	Clean up disk space in the remote switch.
AUTO_UPGRADE-5-AUTO_ADVISE_SW_BUNDLED	5-Notice	switch [dec] running installed software has been added to the stack. Switch [dec] must be running bundled software in order to join the stack.	No explanation required.	iosxe-binos-utils	Boot the member with compatible software.
AUTO_UPGRADE-5-AUTO_ADVISE_SW_CONV	5-Notice	[chars] [dec] running bundled software has been added to the stack that is running installed software. The 'install autoupgrade' command can be used to convert [chars] [dec] to the installed running mode by installing its running software.	No explanation required.	iosxe-binos-utils	No specific action required.
AUTO_UPGRADE-5-AUTO_ADVISE_SW_FOUND	5-Notice	Found donor switch [dec] to auto upgrade switch [dec].	Just an init message.	iosxe-binos-utils	No action is required.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
AUTO_UPGRADE-5-AUTO_ADVISE_SW_INITIATED	5-Notice	Auto advise initiated for [chars] [dec].	A system with incompatible software has been detected in the stack. The stack will now determine whether or not software is available to be copied to the incompatible system, and if so, advise the user how to copy it. Otherwise, the system will merely let the user know that the software on the stack needs to be updated.	iosx-ibnos-utils	No action is required.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
AUTO_UPGRADE-5-AUTO_ADVISE_SW_MSG	5-Notice	[chars] [dec]/R[dec] with incompatible software has been added to the system/stack. all system/stack members were scanned and it has been determined that the 'install autoupgrade' command can be used to install compatible software on [chars] [dec]/R[dec].	TODO: add an explanation.	iosxe-binos-utils	TODO: add an action
AUTO_UPGRADE-5-AUTO_ADVISE_SW_SEARCH	5-Notice	Searching stack for software to upgrade [chars] [dec]/R[dec].	Just an init message.	iosxe-binos-utils	No action is required.
AUTO_UPGRADE-5-AUTO_ADVISE_SW_START	5-Notice	Upgrading [chars] [dec] with software from [chars] [dec].	Just an init message.	iosxe-binos-utils	No action is required.
AUTO_UPGRADE-5-AUTO_UPGRADE_CONV	5-Notice	Converting [chars] [dec] to installed mode by installing its running software.	This needs to be converted as part of the auto upgrade.	iosxe-binos-utils	No action is required.
AUTO_UPGRADE-5-AUTO_UPGRADE_FINISH	5-Notice	Finished installing software on [chars] [dec]/R[dec].	TODO: add an explanation.	iosxe-binos-utils	TODO: add an action
AUTO_UPGRADE-5-AUTO_UPGRADE_FOUND	5-Notice	Found donor [chars] [dec] to auto upgrade [chars] [dec]/R[dec].	Just an init message.	iosxe-binos-utils	No action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
AUTO_UPGRADE-5-AUTO_UPGRADE_INITIATED	5-Notice	Auto upgrade initiated for [chars] [dec]/R[dec].	A system with incompatible software has been detected in the stack. The stack will first attempt to download software from a previously configured location, and install it to make the system compatible. If this is not successful, the stack will then determine whether running software on another stack member is available to be copied to the incompatible system, and whether or not it is appropriate to copy the software automatically	ios-libios-util	No action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
AUTO_UPGRADE-5-AUTO_UPGRADE_INSTALLED	5-Notice	Finished installing the running software on [chars] [dec].	TODO: add an explanation.	iosxe-binos-utils	TODO: add an action
AUTO_UPGRADE-5-AUTO_UPGRADE_RELOAD	5-Notice	Reloading [chars] [dec] to complete the auto upgrade.	Part of autoupgrade	iosxe-binos-utils	Just wait until the reload completes.
AUTO_UPGRADE-5-AUTO_UPGRADE_RELOAD_INSTALLED	5-Notice	Reloading [chars] [dec] to boot in installed mode.	TODO: add an explanation.	iosxe-binos-utils	TODO: add an action
AUTO_UPGRADE-5-AUTO_UPGRADE_SEARCH	5-Notice	Searching stack for software to upgrade [chars] [dec]/R[dec].	Just an init message.	iosxe-binos-utils	No action is required.
AUTO_UPGRADE-5-AUTO_UPGRADE_START	5-Notice	Upgrading [chars] [dec]/R[dec] with software from [chars] [dec].	Just an init message.	iosxe-binos-utils	No action is required.
AUTO_UPGRADE-5-AUTO_UPGRADE_START_CHECK	5-Notice	Auto upgrade start checking for incompatible switches.	Part of autoupgrade	iosxe-binos-utils	NO action is required.
AUTO_UPGRADE-5-SMU_RB_SYNC_FAILED	5-Notice	SMU rollback sync failed on [chars]. Rollback operations may be affeced	SMU rollback sync failed on some reason. Most probable causes are SMUs are not present on the media or the media is full.	iosxe-p-smu	Bring back the SMUs deleted and check whether there is enough space in remote member/SMUs

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
AUTO_UPGRADE_MODULAR-3-AUTO_ERR_SMU_SYNC_FAILED	3-Error	Failed to sync SMUs to standby. Make sure that SMU files are present on active and there is space enough to copy SMUs on standby.	SMU sync failed. Most probable cause are the smu files may have been removed from the active switch using IOS/linux commands. Another reason is there is no space enough to copy the files to the standby	iosxe-p-smu	If the files are removed from the active bring it back to same location. Make sure there is enough space to copy the files on the standby
AUTO_UPGRADE_MODULAR-3-AUTO_NOTICE_RUN_CORRECTION_FAILED	3-Error	Failed to correct the SMU mismatch between the running version on active and standby. Pls abort the smu installation using 'install abort'	The system tried to recover from the missmatch, but failed. Engineer intervention is required	iosxe-p-smu	Get the 'show install log' and the btrace logs from active and standby
AUTO_UPGRADE_MODULAR-5-AUTO_ADVISE_SW_MISSMATCH	5-Notice	Active and standby are running differnt versions, SMUs will not be synced.	No explanation required.	iosxe-binos-utils	Boot the member with same software.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
AUTOUPGRADE_MODULAR-5-AUTO_NOTICE_RUNMISMATCH_STBY_RELOAD	5-Notice	Missmatch between running version of SMUs. Trying to recover. Standby will reload	There is a missmatch on the running version. This will happen when the standby reloads after activate/deactivate and before commit. The machine will try to correct it. One reload is required for correcting the changes.	iosxe-binos-utils	No action required.
AUTO_UPGRADE_MODULAR-5-AUTO_NOTICE_STBY_RELOAD	5-Notice	Installing SMUs on standby. Standby will reload	No explanation required.	iosxe-binos-utils	No action required.
AUTO_UPGRADE_MODULAR-5-SMU_AUTO_UPGRADE_INITIATING	5-Notice	Initiating SMU autoupgrade for [chars] [dec]/R[dec]	No explanation required.	iosxe-binos-utils	Boot the member with same software.
AVC_MESSAGE-3-EWLC_AVC_FNF_CLI_ERR	3-Error	CLI validation error: [chars]	General AVC FNF CLI validation error	iosxe-binos-utils	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BBU-0-CHASFS_OBJECT_NOT_PRESENT	0-Emergency	Expected chassis filesystem object [chars] not present.	A chassis filesystem object expected to be present is not. This could be due to a software defect or filesystem failure.	cabo-platform	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.
BBU-0-CHASFS_PROPERTY_CREATE	0-Emergency	Failed to create chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property was not properly created.	cabo-platform	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.
BBU-0-CHASFS_PROPERTY_GET	0-Emergency	Failed to read chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property was not properly read by the system.	cabo-platform	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BBU-0-CHASFS_PROPERTY_NOT_PRESENT	0-Emergency	Expected chassis filesystem object [chars] property [chars] not present.	A chassis filesystem object property expected to be present is not. This could be due to a software defect or filesystem failure.	cabo-platform	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.
BBU-0-CHASFS_PROPERTY_SET	0-Emergency	Failed to write chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property failed to write.	cabo-platform	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.
BBU-0-EVENT_LIBRARY	0-Emergency	An event facility initialization or maintenance function failed because [chars]	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	cabo-platform	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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BBU-0-SERVICES_INITIALIZATION	0-Emergency	Failed to initialize general application services because [chars]	The system failed to initialize application services.	cabo-platform	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.
BBU-0-UIPEER_CREATE	0-Emergency	Failed to create user interface peer.	The system failed to create a user interface peer.	cabo-platform	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.
BBU-3-BAD_CELL	3-Error	Bad battery cell detected in unit [dec]	Battery firmware detected a bad cell, which can't be recharged.	cabo-platform	Replace the bad battery unit.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BBU-3-CHASFS_PROPERTY_DESTROY	3-Error	Failed to destroy chassis filesystem property [chars]/[chars] because [chars]	A chassis filesystem property that should have been destroyed was not destroyed.	cabo-platform	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.
BBU-3-CLI_ERROR	3-Error	[chars] command execution failed with err=[dec]	CLI execution failed	cabo-platform	No user action is required.
BBU-3-COMM_ERR	3-Error	Battery communication error: [chars]	Battery communication error.	cabo-platform	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.
BBU-3-FW_UPGRADE_FAILED	3-Error	Firmware upgrade failed with error [dec]	Battery firmware upgrade failed.	cabo-platform	Check battery status.
BBU-3-HW_INIT_PH_ERR	3-Error	Hardware init phase error, [chars] init returned [dec]	Hardware failed to initialize.	cabo-platform	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.
BBU-3-HW_RUNTIME_ERR	3-Error	Hardware runtime error, [chars] init returned [dec]	Hardware failed.	cabo-platform	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BBU-4-AC_TO_DC_TRANSITION	4-Warning	AC power is off, running on batteries.	Lost power from AC power line, system is powered by backup batteries.	cabo-platform	Check AC power line.
BBU-4-FW_UPGRADE_STARTED	4-Warning	Firmware upgrade to version [dec] started	Battery firmware upgrade started.	cabo-platform	No user action is required.
BBU-4-LOW_LEVEL	4-Warning	Battery charge running low ([dec]%%)	Battery charge is below low level threshold.	cabo-platform	Check AC power line.
BBU-4-STATUS_CHANGE	4-Warning	The [chars] parameter for BBU unit [dec] has changed	Status change of BBU parameters	cabo-platform	No user action is required.
BBU-5-BBU_EVT_LOG	5-Notice	Battery Event Log - [chars]:[chars] \n	BBU Event Log Data.	cabo-platform	No user action is required.
BBU-5-CELL_RECOVERED	5-Notice	Battery cell in unit [dec] recovered	A battery cell, which was previously detected to be bad, has now recovered.	cabo-platform	No user action is required.
BBU-5-CLI_OK	5-Notice	Command [chars]	CLI execution successful.	cabo-platform	No user action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BBU-5-DC_TO_AC_TRANSITION	5-Notice	AC power is back on, running on power line	AC power is restored, system is powered by AC power line	cabo-platform	No user action is required.
BBU-5-FW_UPGRADE_FINISHED	5-Notice	Firmware upgrade finished successfully	Battery firmware upgrade finished.	cabo-platform	No user action is required.
BBU-5-HW_HOTPLUG	5-Notice	Battery detected, started initialization	Battery hotplugged in the system, Started probing and initialization.	cabo-platform	No user action is required.
BBU-5-NORMAL_LEVEL	5-Notice	Battery charge reached normal level ([dec]%%)	Battery charge is above low level threshold.	cabo-platform	No user action is required.
BBU-7-FSM_TRANSITION	7-Debug	FSM transition ([dec], [dec]) -> [dec]	FSM transition (old_state, event) -> new state	cabo-platform	No user action is required.
BCRDU-3-PATCH_ACTIVATE_FAIL_MESSAGE	3-Error	Failed to activate patch. The patch name is [chars] and the reason is: [chars]	During system reload, all committed patches will be automatically activated.For some reason, a patch activation fails.	iosxe-binos-utils	Check [bcrdu] ERR entries in the log files for message reporting problems.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BCRPGC-3-REFERENCE_STUBBED	3-Error	Stubbed [chars] is referenced	Stubbed function/variable is referenced.	ios-shim-utils	File a DDTS and attach the backtrace
BCRPGC-3-USWAP_ERROR	3-Error	uswap error - no space on [chars]	Path for USWAP files.	ios-shim-utils	If this error is seen, it is recommended to clean up the flash usage. If more assistance is required, file a DDTS, attach the backtrace and btrace
BFDMGR-5-BFD_STATE_CHANGE	5-Notice	BFD tunnel ([chars]:[dec] => [chars]:[dec], [chars]) state changed to [chars], Local-TLOC: [chars]/[chars], Remote-TLOC: [chars]/[chars], reason for state change: [chars]	This syslog is generated when a BFD tunnel state changes	cedge-forwarding	No action is required
BFDMGR-6-BFD_SLA_CHANGE	6-Information	BFD tunnel ([chars]:[dec] => [chars]:[dec], [chars]) SLA changed from [chars] to [chars], Local-TLOC: [chars]/[chars], Remote-TLOC: [chars]/[chars] PFR stats: [chars]	This syslog is generated whenever SLA of a BFD tunnel running on top of specific TLOC changes	cedge-forwarding	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BINOS_LOGIN-3-AUTHERR	3-Error	The authentication process failed, [chars]	This error occurs when there is an error in the system that prevents the user from being successfully authenticated	iosxe-binos-utils	LOG_STD_NO_ACTION
BINOS_LOGIN-3-NOTROOT	3-Error	login attempted to run without proper credentials.	login can not be run without proper credentials.	iosxe-binos-utils	LOG_STD_NO_ACTION
BINOS_LOGIN-3-NOTTY	3-Error	login attempted but stdin is not a tty	login can not be run without stdin set to tty	iosxe-binos-utils	LOG_STD_NO_ACTION
BINOS_LOGIN-3-PAMERR	3-Error	PAM error [chars] encountered.	The system encountered a PAM error.	iosxe-binos-utils	LOG_STD_NO_ACTION
BINOS_LOGIN-3-PWNOENT	3-Error	No entry for user [chars] in passwd file	The username/password authenticated correctly, but the user's environment could not be established because the user's environment data is missing.	iosxe-binos-utils	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BINOS_LOGIN-6-PAMAUTHDENY	6-Information	User was not authenticated	User was not authenticated	ios-ebinos-utils	LOG_STD_NO_ACTION
BINOS_LOGIN-6-PAMMAXTRIES	6-Information	Maximum number of retries exceeded.	The user tried and failed too many times to login.	ios-ebinos-utils	LOG_STD_NO_ACTION
BIPC-3-BIPC_PERFORMANCE	3-Error	buffer size request [dec] failed	An internal buffer allocation has failed.	ios-ebinos-utils	No action is required. If the problem persists, or router performance is noticeably degraded, contact Cisco technical support. Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.html or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BIPCMGR-3-INVALID_TDL_ERROR_ON_MARSHAL	3-Error	TDL epoch error on marshal [dec] unexpected: [chars]	The bipc manager has attempt to marshal a message to be sent. The tdl library has generated an error on marshal that is unexpected. The message was not sent.	iosxe-linux-utils	This is unexpected. Report this to Cisco TAC
BLACKBIRD_LIB-5-BB_INT_DETECTED	5-Notice	[chars] non-maskable interrupt detected	NMI, SEU or PCIe link down interrupt is detected	iosxe-platform-infra	LOG_STD_RECUR_ACTION
BOOT-0-APP_STARTFAILCRIT	0-Emergency	Failed to launch a critical process [chars]	A process important to the chassis has failed.	iosxe-linux-utils	Note the time of the message and investigate the error message logs to learn more about the problem. If the problem persists or cannot be resolved, copy the error message and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.
BOOT-0-BOOT_BADDIMM	0-Emergency	WARNING: This memory configuration: [chars] is not supported on this platform!	This memory configuration isn't supported on this platform.	iosxe-linux-utils	Change memory configuration to a supported one.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BOOT-0-BOOT_COMPLETE_FAIL	0-Emergency	Critical boot tasks failed: [chars]	The system has encountered a critical failure preventing successful boot.	iosxe-bmcs-util	Note the time of the error message and system logs for additional information on the problem. If you are unable to resolve this problem, copy the error message and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.
BOOT-0-BOOT_NOSPACE	0-Emergency	WARNING: No space on bootflash [chars] for packages, using system memory! Delete files from bootflash to free memory and reload the system; otherwise, system behavior will be unpredictable due to high memory utilization.	Failed to boot system from bootflash. Image is booting from system memory! Delete files from bootflash to free memory and reload the system; otherwise, system behavior will be unpredictable due to high memory utilization.	iosxe-bmcs-util	Delete files from bootflash to free memory and reload the system.
BOOT-0-BOOT_VERITY_CORRUPT	0-Emergency	Verity device [chars] is corrupted. Reloading FRU.	The integrity check of the verity mapped device has failed.	iosxe-bmcs-util	Check image integrity.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BOOT-0-DRV_INITFAIL	0-Emergency	[chars] driver failed to initialize properly	A kernel driver that is critical to the functioning of the system failed to initialize properly.	ios-sbin-utils	Note the time of the error message and check the kernel error logs for additional information on the problem. If you are unable to resolve this problem, copy the error message and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.
BOOT-0-DRV_LOADFAIL	0-Emergency	Failed to load driver [chars] ([chars])	A kernel driver that was critical to the functioning of the system failed to load.	ios-sbin-utils	Note the time of the error message and check the kernel error logs for additional information on the problem. If you are unable to resolve this problem, copy the error message and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.
BOOT-3-APP_STARTFAIL	3-Error	Failed to launch process [chars]	A process that does not affect the forwarding of network traffic failed to start.	ios-sbin-utils	If the failed process is not something that needs to be corrected, do not address this message. If the failed process needs to be addressed, install new software and reload the router.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BOOT-3-BOOTTIME_GET_ISSU_INFO_OF_REMOTE_CHASSIS_FAILED	3-Error	Failed to get ISSU information from remote chassis. Details: [chars]	Failed to get remote switch information for compatibility check. This could be for multiple underlying failures such as reachability of peer member lost or remote member not responding	iosxe-bmcs-utils	If standby is stuck retry with reloading standby. If standby does not comes up even after reloading attempts, try reloading the whole stack to recover.
BOOT-3-BOOTTIME_INCOMPATIBLE_SW_DETECTED	3-Error	Incompatible software detected. Details: [chars]	Incompatible software is detected on target fru/chassis.	iosxe-bmcs-utils	Upgrade manually or check auto-upgrade configuration.
BOOT-3-BOOTTIME_MISMATCH_RESTRICTED_STACK_SETUP_DETECTED	3-Error	Mismatch detected. Details: [chars]	Incompatible stacked setup detected on target fru/chassis.	iosxe-bmcs-utils	Switch with mismatch require to be reloaded
BOOT-3-BOOTTIME_SMU_MISSING_DETECTED	3-Error	SMU file [chars] missing and system impact will be unknown	SMU file not found during bootup.	iosxe-p-smu	System will be running without the fix from the SMU

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BOOT-3-BOOTTIME_SMU_RUN_CORRECTION_FAILED	3-Error	Failed to correct the SMU mismatch between the running version on active and [chars]. Pls abort the smu installation using 'install abort'	The system tried to recover from the missmatch, but failed. Engineer intervention is required	iosxe-p-smu	Get the 'show install log' and the btrace logs from active and standby
BOOT-3-BOOTTIME_SMU_SYNC_FAILED	3-Error	Failed to copy the SMUs to switch [chars]. Reload cancelled and switch will be declared incompatible	SMU sync failed on newly joined switch.	iosxe-p-smu	Switch with mismatch will be declared incompatible. Check the space on the remote switch. Check whether the file is present on active.
BOOT-3-COMP_SW_TREE_DIR_CREATION	3-Error	COMP_SW_TREE directory is being generated	If chasfs/issu directory is missing on active, this message is displayed and the directory and its contents are being regenerated	iosxe-binos-utils	No user action is necessary. This is an informative message.
BOOT-3-DUAL_BOOT_MEMORY	3-Error	Dual IOS boot indicated in ROMMON ([chars]), unavailable on [chars] RP	Running two IOS instances on the same RP is unavailable on route-processors with insufficient memory	iosxe-binos-utils	Unset the specified ROMMON variable or increase the memory on the route-processor.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BOOT-3-EXT_ISSU_CHK_FAILED	3-Error	Detected booting up of standby RP with image beyond the ISSU domain of active RP by the [chars] process. The standby RP is forced to reset.	If standby RP is booted up with an image which is beyond the ISSU software domain of the active RP's image, the functionality of active RP may be unpredictable. Hence the standbby is being reset.	iosxe-binos-utils	Remove the standby RP FRU from the chassis or boot it up with an image whose version is compatible with current running active RP.
BOOT-3-FLASH_READ_FAIL	3-Error	failed to get [chars] from flash	Property not populated.	iosxe-binos-utils	No user action is necessary. This is informative message.
BOOT-3-FSCK_FAILED	3-Error	filesystem on [chars] contains errors fsck couldn't resolve.	A device's file system consistency check failed & fsck utility was unable to repair it.	iosxe-binos-utils	If this occurs frequently, contact Cisco technical support representative.
BOOT-3-OPMODE_ERR	3-Error	Device-mode error : [chars]	The system has encountered a device-mode failure during boot.	iosxe-binos-utils	The device-mode booting err information captured with console logging For information, try show platform softwate device-mode CLI.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BOOT-3-PARTIAL_CORE_CLEANUP_FAILURE	3-Error	Partial core clean up failed for [chars]: [chars]	During RP boot, a failure occurred cleaning up incomplete core files.	iosxe-binos-utils	Please check the router file systems.
BOOT-3-SYSD_STARTFAIL	3-Error	Failed to launch boot task [chars] ([chars])	A boot task failed to start.	iosxe-binos-utils	If the failed boot task is not something that needs to be corrected, do not address this message. If the failed boot task needs to be addressed, install new software and reload the router.
BOOT-4-BOOT_CORRUPT	4-Warning	Boot Partition corrupted.	Boot Parition on the router is corrupted. Router booting from bootflash.	iosxe-binos-utils	Contact Cisco technical support.
BOOT-5-BOOTTIME_RB_SYNC_FAILED	5-Notice	Failed to sync the SMUs to switch [chars]. Install rollback operation may get affected.	Rollback point sync failed on newly joined switch.	iosxe-p-smu	Switch will not have the rollback points. Check the space on the remote switch.
BOOT-5-BOOTTIME_SMU_MISMATCH_DETECTED	5-Notice	SMU mismatch from active detected. SMUs will be copied and switch [chars] will be reloaded	SMU mismatch found on newly joined switch.	iosxe-p-smu	Switch with mismatch will be reloaded
BOOT-5-BOOTTIME_SMU_RUN_MISMATCH_DETECTED	5-Notice	Running SMU mismatch from active dectected. System will try to correct it, switch [chars] will be reloaded	Running version of SMU mismatch found on newly joined switch.	iosxe-p-smu	Stack will try to correct itself.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BOOT-5-BOOTTIME_SMU_TEMP_ACTIVE_DETECTED	5-Notice	SMU file [chars] active temporary... SMU commit is pending	SMU file is active temporary and 'install commit' needs to be run to make it permanent. Else reload without commit will deactive this SMU.	iosxe-p-smu	Execute 'install commit' before reload to make activate permanent.
BOOT-5-BOOTTIME_SMU_TEMP_DEACTIVE_DETECTED	5-Notice	SMU file [chars] deactive temporary... SMU commit is pending	SMU file is deactive temporary and 'install commit' needs to be run to make it permanent. Else reload without commit will active this SMU again.	iosxe-p-smu	Execute 'install commit' before reload to make deactivate permanent.
BOOT-5-OPMODE_LOG	5-Notice	Device-mode logging : [chars]	The device-mode booting information.:	iosxe-bios-utils	The device-mode booting information captured with console logging For information, try show platform softwate device-mode CLI.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BOOT-6-APP_START	6-Information	The process [chars] has started	The process has successful launched and begun executing.	iosxe-linux-utils	No user action is necessary. This message indicates the system is functioning normally and is provided for informational purposes only.
BOOT-6-DRV_LOAD	6-Information	Loaded driver [chars]	A kernel driver that was critical to the functioning of the system was successfully loaded.	iosxe-linux-utils	No user action is necessary. This message indicates the system is functioning normally and is provided for informational purposes only.
BOOT-6-PARTIAL_CORE_REMOVED	6-Information	Removed incomplete core file: [chars]	On boot of the RP, an incomplete core file was found and removed. Incomplete core files can happen for a variety or reasons, including the coincident failure of the active RP while a core file is being generated.	iosxe-linux-utils	No action required. This is not an error, it is an indication that the system is cleaning up a previous error.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BRELAY-3-LOCATE_FRU	3-Error	Command could not be executed. Target FRU could not be resolved	The brelay process is responsible for determining the target of a command, either local or a remote brelay instance. Control is returned to IOSd by exiting the brelay instance.	iosxe-bios-utils	Check the status of the command target. Check the brelay log files for further indications as to why the initialization failed and if necessary restart the machine.
BSHELL-3-EXEC_DIRECTIVE_FAIL	3-Error	[[chars]] Command directive execution failed: [chars]	The diagnostic shell was unable to execute the requested directive.	iosxe-bios-utils	Check the diagnostic shell trace file for more information on the underlying failure.
BSHELL-3-EXEC_FAIL	3-Error	[[chars]] Command execution failed	The diagnostic shell was unable to execute the requested interactive command.	iosxe-bios-utils	Check the diagnostic shell trace file for more information on the underlying failure.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BSHELL-3-EXEC_PREPARE_FAIL	3-Error	[[chars]] Command execution prepare failed	The diagnostic shell was unable to prepare the requested interactive command for execution. The command failed.	iosxe-linux-utils	Check the diagnostic shell trace file for more information on the underlying failure.
BSHELL-3-GET_HOSTNAME_FAIL	3-Error	[[chars]] Get hostname failed: [chars]	The diagnostic shell was unable to read the hostname from the kernel.	iosxe-linux-utils	No action is required. The diagnostic shell periodically checks for hostname changes to set the user prompt.
BSHELL-3-RECEIVE_MESSAGE_FAILED	3-Error	[[chars]] Receive message [chars] failed: [chars]	The diagnostic shell was unable to receive a message from the Shell Manager	iosxe-linux-utils	Retry the operation or start a new diagnostic shell session.
BSHELL-3-SEND_MESSAGE_FAILED	3-Error	[[chars]] Send message [chars] failed: [chars]	The diagnostic shell was unable to send a message to the Shell Manager.	iosxe-linux-utils	Retry the operation or start a new diagnostic shell session.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BSHELL-3-TERMINAL_OPERATION_FAIL	3-Error	[[chars]] Terminal [chars] [chars] failed: [chars]	The diagnostic shell was unable to get or set terminal properties. An attempt to change or act on terminal properties failed.	iosxe-bmcs-utils	Restart the diagnostic shell and reattempt the failed operation
BSHELL-6-BSHELL_UPGRADE_DETECTED	6-Information	[[chars]] New software detected. Bshell instance restarting.	The diagnostic shell detected a new installation of diagnostic shell software. The diagnostic shell instance exits and restarts with the new software version.	iosxe-bmcs-utils	This is an informational message only. No action is required.
BSHELL-6-SESSION_ENDED	6-Information	[[chars]] bshell session ended for user '[chars]'	A user has exited a diagnostic shell session.	iosxe-bmcs-utils	This is an informational message only. No action is required.
BSHELL-6-SESSION_STARTED	6-Information	[[chars]] bshell session started for user '[chars]'	A user has started a diagnostic shell session.	iosxe-bmcs-utils	This is an informational message only. No action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BSHELL-6-SMAN_CONNECTION_FAILED	6-Information	[[chars]] Shell Manager connect failed: [chars]	The diagnostic shell is unable to connect to the Shell Manager, possibly because the Shell Manager process is no longer available. This type of error is experienced if a software upgrade is in progress.	iosxe-linux-utils	No action is required. Once the Shell Manager process has restarted, the diagnostic shell will reconnect.
BSHELL-6-SMAN_CONNECTION_LOST	6-Information	[[chars]] Shell Manager connection lost	The diagnostic shell was disconnected from the Shell Manager and the Shell Manager process is no longer available. This type of error is experienced if a software upgrade is in progress.	iosxe-linux-utils	This is an informational message only. No action is required. Once the Shell Manager process has restarted, the diagnostic shell will reconnect.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
BSMRP-0-CHASFS_LOCATION_TRANSLATE	0-Emergency	Failed to translate a location to a chasfs object name because [chars]	The backplane switch manager failed to translate a location to a chasfs object name.	esg-bsm	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.
BSMRP-0-CHASFS_OBJECT_CREATE	0-Emergency	Failed to create chassis filesystem object [chars] because [chars]	The hardware failed to create a chassis filesystem object.	esg-bsm	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.
BSMRP-0-CHASFS_OBJECT_NOT_PRESENT	0-Emergency	Expected chassis filesystem object [chars] not present.	A chassis filesystem object expected to be present is not. This could be due to a software defect or filesystem failure.	esg-bsm	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BSMRP-0-CHASFS_OBJECT_WATCH	0-Emergency	Failed to watch chassis filesystem object [chars] because [chars]	A chassis filesystem object was not watched because of the reason stated in the error message.	esg-bsm	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.
BSMRP-0-CHASFS_PROPERTY_CREATE	0-Emergency	Failed to create chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property was not properly created.	esg-bsm	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.
BSMRP-0-CHASFS_PROPERTY_GET	0-Emergency	Failed to read chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property was not properly read by the system.	esg-bsm	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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BSMRP-0-CHASFS_PROPERTY_NOT_PRESENT	0-Emergency	Expected chassis filesystem object [chars] property [chars] not present.	A chassis filesystem object property expected to be present is not. This could be due to a software defect or filesystem failure.	esg-bsm	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.
BSMRP-0-CHASFS_PROPERTY_SET	0-Emergency	Failed to write chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property failed to write.	esg-bsm	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BSMRP-0-CHASSIS_STATUS	0-Emergency	Failed to get chassis hardware status because [chars]	The system failed to get the chassis hardware status.	esg-bsm	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.
BSMRP-0-CHASSIS_TYPE	0-Emergency	The chassis type [chars] is invalid.	The chassis type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.	esg-bsm	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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BSMRP-0-EVENT_LIBRARY	0-Emergency	An event facility initialization or maintenance function failed because [chars]	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	esg-bsm	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.
BSMRP-0-INVALID_ARGUMENT	0-Emergency	A system function was given an invalid argument.	A system function was given an invalid argument. This is due to a software defect.	esg-bsm	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.
BSMRP-0-IPC_CONNECTION_INVALID	0-Emergency	An IPC connection has invalid state.	An IPC connection has an invalid state. This could be due to a software defect or system resource exhaustion.	esg-bsm	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BSMRP-0-IPC_CONNECT_MASTER	0-Emergency	IPC connection to the active RP failed because [chars]	IPC connection to the active RP failed. This could be due to a software defect or system resource exhaustion.	esg-bsm	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.
BSMRP-0-IPC_INITIALIZATION	0-Emergency	IPC initialization failed because [chars]	IPC initialization failed. This could be due to a software defect or system resource exhaustion.	esg-bsm	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.
BSMRP-0-MESSAGE_REGISTER	0-Emergency	Failed to register with active RP because [chars]	The active RP failed to register.	esg-bsm	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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BSMRP-0-MESSAGE_RELAY	0-Emergency	Failed to relay a message because [chars]	Failed to relay a message. This could be due to a software defect or system resource exhaustion.	esg-bsm	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.
BSMRP-0-MESSAGE_RESPONSE	0-Emergency	An invalid message response was received because [chars]	An invalid message response was received. This could be due to a software defect or system resource exhaustion.	esg-bsm	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.
BSMRP-0-MQIPC_ADVANCE	0-Emergency	Failed to advance MQIPC queue because [chars]	The MQIPC initialization failed.	esg-bsm	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BSMRP-0-MQIPC_INITIALIZATION	0-Emergency	MQIPC initialization failed because [chars]	MQIPC initialization failed. This could be due to a software defect or system resource exhaustion.	esg-bsm	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.
BSMRP-0-PEER_TABLE	0-Emergency	A peer table initialization or maintenance function failed because [chars]	A peer table initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	esg-bsm	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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BSMRP-0-PLATFORM_FAMILY_TYPE	0-Emergency	The platform family type [chars] is invalid.	The platform family type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.	esg-bsm	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.
BSMRP-0-RESOLVE_FRU	0-Emergency	Failed to determine [chars] card because [chars]	The router failed to determine a FRU state.	esg-bsm	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BSMRP-0-SERVICES_INITIALIZATION	0-Emergency	Failed to initialize general application services because [chars]	The system failed to initialize application services.	esg-bsm	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.
BSMRP-0-SIGNAL_INITIALIZATION	0-Emergency	Failed to initialize signals because [chars]	The system failed to initialize signals.	esg-bsm	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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
BSMRP-0-SLOTS_INITIALIZATION	0-Emergency	Failed to initialize chassis slot information because [chars]	The system failed to initialize the chassis slot information.	esg-bsm	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.
BSMRP-0-SLOT_INVALID	0-Emergency	A card absolute slot number cannot be determined for this chassis type	An absolute slot number is invalid. This could be due to a software defect or incorrect IDPROM content.	esg-bsm	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BSMRP-0-UIPEER_CREATE	0-Emergency	Failed to create user interface peer.	The system failed to create a user interface peer.	esg-bsm	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.
BSMRP-3-BSM_SERVICE_SETUP	3-Error	Failed to setup the backplane switch manager (bsm) service	Backplane Switch Manager failed to set itself up as a proxy to the backplane switch.	esg-bsm	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.
BSMRP-3-CHASFS_OBJECT_DESTROY	3-Error	Failed to destroy chassis filesystem object [chars] because [chars]	A chassis filesystem object that should have been destroyed was not destroyed.	esg-bsm	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BSMRP-3-CHASFS_PROPERTY_DESTROY	3-Error	Failed to destroy chassis filesystem proprty [chars]/[chars] because [chars]	A chassis filesystem property that should have been destroyed was not destroyed.	esg-bsm	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.
BSMRP-3-PEER_INVALID	3-Error	A peer table entry has invalid state.	A peer table entry has an invalid state. This could be due to a software defect or system resource exhaustion.	esg-bsm	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.
BSSID_MGR_TRACE_MSG-3-WLC_GEN_ERR_TB	3-Error	Error in [chars]	General Wireless LAN Controller Error Message.	ewlc-ap	LOG_STD_ACTION
BTRACE_MANAGER-3-BTRT_ERR_MSG	3-Error	Btrace Rotate Error: [chars]	Btrace Rotate error message.	iosxe-bmcs-utils	LOG_STD_ACTION
BTRACE_MANAGER-4-FILTER_CONFIG	4-Warning	Btrace Manager UTF Filter Applied from conf file: [chars]	Btrace Filter Manager	polaris-trace	No action required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
BTRACE_MANAGER-7-BTRT_LOG_MSG	7-Debug	Btrace Export: [chars]	Btrace export info	iosxe-infrastructure	No action required
CABLE_IPCCL_LIB-4-EAGAIN	4-Warning	ipccl port [chars] throttling on, port curr_pending msg ([dec])[conf_high_watermark ([dec])-conf_low_watermark ([dec])]. current oustanding msg waiting for ack ([dec]). client_id [chars] svc_id [chars] msg_type [dec] d_slot [dec]	IPCCL port throttling on	cpe-platform-infra	Application should check whether they send too much msg, and better to slow down
CABLE_IPCCL_LIB-4-KEEPALIVE_TIMEOUT	4-Warning	Keepalive Timeout for [chars][dec]	IPCCL Keepalive timeout happened	cpe-platform-infra	Should monitor this errmsg, if prompted many times, need to reload the CLC to recover
CABLE_IPCCL_LIB-4-SVC_EAGAIN	4-Warning	ipccl svc_id [chars] throttling on, svc current q_size ([dec])[high_watermark ([dec])-low_watermark ([dec])]. port_id [chars] client_id [chars] msg_type [dec] d_slot [dec] session_id [dec]	IPCCL service throttling on	cpe-platform-infra	Application should check whether they send too much msg, and better to slow down
CABLE_IPCCL_LIB-5-LOW_WATERMARK	5-Notice	ipccl port [chars] hit low watermark, port current pending msg ([dec])[conf_high_watermark ([dec])-conf_low_watermark ([dec])]. current oustanding msg waiting for ack ([dec]). client_id [chars] svc_id [chars] msg_type [dec] d_slot [dec]	IPCCL port watermark hit	cpe-platform-infra	Application should check whether they send too much msg, and better to slow down

Facility-Severity-Mnemonic	Severity-Meaning	Message	Message-Explanation	Component	Recommended-Action
CABLE_IPCCL_LIB-5-SVC_LOW_WATERMARK	5-Notice	ipccl svc_id [chars] hit low watermark, svc current q_size ([dec])[high_watermark ([dec])-low_watermark ([dec])]. port_id [chars] client_id [chars] msg_type [dec] d_slot [dec] session_id [dec]	IPCCL service watermark hit	cable-platform-infra	Application should check whether they send too much msg, and better to slow down
CAC_TRACE_MESSAGE-5-EWLC_GEN_ERR	5-Notice	Call admission control : [chars]	General ewlc Error Message.	ios-wireless-utils	LOG_STD_ACTION
CAPWAPAC_SMGR_TRACE_MESSAGE-3-DUPLICATE_IP_PORT	3-Error	IP-Port mapped to more than one AP. [chars]	If the APs are behind NAT/PAT, one of the port is possibly mapped to multiple APs. Client may not be able to join this AP	ewlc-ap	If the APs are behind NAT/PAT, kindly check if same port is mapped to multiple APs
CAPWAPAC_SMGR_TRACE_MESSAGE-3-WLC_GEN_ERR	3-Error	Error in [chars]	General ewlc Error Message.	ewlc-ap	LOG_STD_ACTION
CAPWAPAC_SMGR_TRACE_MESSAGE-4-AP_MSG_THRESHOLD	4-Warning	Warning : [chars]	Number of messages in capwap queue crossed the threshold(exceeded or recovered)	ewlc-ap	LOG_STD_NO_ACTION
CAPWAPAC_SMGR_TRACE_MESSAGE-5-AP_JOIN_DISJOIN	5-Notice	AP Event: [chars]	AP Join/Disjoin Event	ewlc-ap	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CAPWAPAC_SMGR_TRACE_MESSAGE-6-WLC_APMGR_INFO	6-Information	Info : - [chars]	General Wireless LAN Controller info message	ewlc-ap	LOG_STD_ACTION
CAPWAPAC_TRACE_MSG-2-MAX_SUPPORTED_AP_LIMIT_90PCT_EXCEEDED	2-Critical	90%% ([dec]) of Maximum Supported AP Join Limit: [dec] exceeded	Exceeded 90% of maximum supported AP join limit	ewlc-ap	LOG_STD_ACTION
CAPWAPAC_TRACE_MSG-2-MAX_SUPPORTED_AP_LIMIT_EXCEEDED	2-Critical	Maximum supported AP join limit: [dec] exceeded	Maximum supported AP join limit exceeded	ewlc-ap	LOG_STD_ACTION
CAPWAPAC_TRACE_MSG-3-MAX_AP_LIMIT_REACHED	3-Error	Ap [chars] will be disconnected. Maximum AP Join Limit: [dec] Reached	Maximum AP join limit reached error	ewlc-ap	LOG_STD_ACTION
CAPWAPAC_TRACE_MSG-3-MAX_LICENSE_AP_LIMIT_REACHED	3-Error	Ap [chars] is not allowed to join. Please start reporting licensing to Cisco to get the ACK for resumption of normal operation.	Device is not registered, maximum AP join limit reached error	ewlc-ap	LOG_STD_ACTION
CAPWAPAC_TRACE_MSG-4-EWC_AP_JOIN_DISABLED_DURING_PNP	4-Warning	Attempt by AP [chars] with MAC [chars] to join this controller was rejected due to PnP image download in progress	External AP is not allowed to join when internal AP image upgrade is going on as part of PnP image download	ewcap-image	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CAPWAP_TRACEMSG-4-WLC_AP_ON_DISABLED_DURING_IRED_DOWNLOAD	4-Warning	Attempt by AP [chars] with MAC [chars] to join this controller was rejected due to network upgrade	New AP is not allowed to join during network upgrade	ewlc-wcap-image	LOG_STD_ACTION
CAPWAP_TRACEMSG-4-WLC_AP_ON_DISABLED_WNCD_CONFIG_INIT_IN_PROGRESS	4-Warning	Attempt by AP with MAC [chars] to join this controller was rejected as WNCDs config init still in progress	External AP is not allowed to join as WNCD processes are still being initialized with wlan/policy/site configs	ewlc-app-infra	LOG_STD_ACTION
CAPWAP_TRACEMSG-4-WLC_INTERNAL_AP_ON_DISABLED_DURING_PNP_PROVISION	4-Warning	Attempt by Internal AP [chars] with MAC [chars] to join this controller was rejected due to PnP Image Dwonload is in progress and PnP Provision is not Done	Internal AP is not allowed to join in PnP image upgrade flow till the PnP Provision is done	ewcap-image	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CAPWAP_DOWNLOAD_IMAGE_MSG-3-CAPWAP_DOWNLOAD_IMAGE_CANNOT_CHECK_ACTIVE_AP_NAME_FAILED	3-Error	Unable to determine name of AP running active controller. Please ensure internal AP has joined and try again	Installer needs to check that the configured preferred master matches the current active controller AP name before reloading. However it was unable to determine the active controller AP name, probably because the internal AP has not joined. Please ensure that the internal AP has joined and then try again	ewc-ap-image	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
[illegible]	3-Error	The configured preferred master AP name does not match the current active controller AP name. Please configure the preferred master AP name with 'wireless ewc-ap preferred-master' to match the active controller AP name as shown by 'show wireless ewc-ap redundancy summary' and try again	Installer requires that the configured preferred master matches the current active controller AP name before reloading. Please ensure that the preferred master is configured correctly and then try again	ewcap-image	LOG_STD_NO_ACTION
[illegible]	3-Error	Configured image download profile failed to download version.info; check network and server configuration	Configured image download profile may not be able to download the correct AP images	ewcap-image	LOG_STD_NO_ACTION
[illegible]	3-Error	Failed to start downloading AP image version with error [chars]	Configured image download profile may not be able to download the correct AP images	ewcap-image	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
[illegible]	3-Error	External download for internal AP cannot start, a previous download has been already performed.	EWC image upgrade workflow requires mandatory download for new image master AP required by the internal AP. If a previous 'install add' has been performed without ativation, an 'install remove' action is needed to clear fully the previous downloads.	ewcap-image	Execute 'install remove profile default', 'clear ap predownload statistics', and retry Network Upgrade
[illegible]	3-Error	Controller performs another external transfer, for example a new AP joins the network. Once transfer completed, please try Network Upgrade again	EWC allows only one active image transfer. For an AP join case, such a transfer has to be completed before a Network Upgrade is started.	ewcap-image	Check 'show ap summary'. If the number of APs is the expected one, update the image download profile to point to the new software version, and retry Network Upgrade

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CAPWAP_MODWNLD_TRACE_MESSAGE-3-CAPWAP_MODWNLD_EWC_API_ERR	3-Error	%% Error: [chars]	Network not ready for this install command	iosxe-binos-utils	Try again later
CAPWAP_MODWNLD_TRACE_MESSAGE-3-CAPWAP_MODWNLD_EWC_API_NO_SPACE	3-Error	No sufficient space on bootflash for upgrade. Please do 'dir bootflash:' to list and delete unwanted files. Please do 'install remove profile default'.	No sufficient space on flash to hold the image, please do some cleanup on bootflash:	iosxe-binos-utils	Try 'install remove profile default'
CAPWAP_MODWNLD_TRACE_MESSAGE-3-CAPWAP_MODWNLD_EWC_API_PRODOWNLOAD_REQUIRES_POLL_CCO	3-Error	Please do poll-cco once before starting EWC-AP software predownload via CCO	EWC-AP software predownload via CCO requires polling CCO first to get suggested latest software version	ewcap-image	LOG_STD_NO_ACTION
CAPWAP_MODWNLD_TRACE_MESSAGE-3-CAPWAP_MODWNLD_EWC_INTERNAL_AP_NOT_JOINED	3-Error	Internal AP has not joined the controller. Once internal AP is up, please try Network Upgrade again.	If internal AP is not present Network Upgrade can not start.	ewcap-image	Check 'show ap summary'. Wait for internal AP is present before Network Upgrade start
CAPWAP_MODWNLD_TRACE_MESSAGE-3-CAPWAP_MODWNLD_GEN_ERR	3-Error	%% Error: [chars]	Improper arguments or config	iosxe-binos-utils	Arguments to be changed
CAPWAP_MODWNLD_TRACE_MESSAGE-4-CAPWAP_MODWNLD_EWC_AP_IMAGE_VERSION_MISMATCH	4-Warning	Configured image download profile downloads AP image version [chars]; requires AP image version [chars] to join this controller	Configured image download profile does not work for AP join	ewcap-image	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
[illegible]	4-Warning	Image predownload is still in progress, 'install activate' might lead to a longer upgrade of the network	Not all APs might have the new image yet	ewcap-image	LOG_STD_NO_ACTION
[illegible]	5-Notice	List Event: [chars]	EWC-AP Master/Invalid Master AP list [illegible] Events	ewcap-image	LOG_STD_NO_ACTION
[illegible]	6-Information	AP Event: Downloaded AP image [chars] was deleted	Downloaded AP image deleted	ewcap-image	LOG_STD_NO_ACTION
[illegible]	6-Information	AP Event: Downloaded AP image [chars] without image node was deleted	Downloaded AP image deleted from RAM disk	ewcap-image	LOG_STD_NO_ACTION
[illegible]	6-Information	Configured image download profile downloads AP image version [chars], matching required AP image version to join this controller	Configured image download profile works for AP join	ewcap-image	LOG_STD_NO_ACTION
[illegible]	6-Information	AP Event: External Download complete and deleted for AP image [chars] without image node	Downloaded AP image deleted from RAM disk	ewcap-image	LOG_STD_NO_ACTION
[illegible]	6-Information	corefiles and/or tracelogs have been deleted, [dec] Bytes disk space is freed	corefiles and tracelogs have been deleted	iosxe-binos-utils	LOG_STD_NO_ACTION
[illegible]	6-Information	EWC-AP Event: EWC-AP Controller image [chars] mmaped ... Timer started to unmap	EWC-AP Image MMaped in Memory	ewcap-image	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
[illegible]	6-Information	EWC-AP Event: EWC-AP Controller image [chars] already mmaped in memory ... Timer to unmap reset	EWC-AP Image MMaped in Memory	ewcap-image	LOG_STD_NO_ACTION
[illegible]	6-Information	EWC-AP Event: EWC-AP Controller image [chars] unmapped from memory ... Timer to unmap Stopped	Controller image unmapped from memory	ewcap-image	LOG_STD_NO_ACTION
[illegible]	6-Information	AP Event: Predownload Total AP count [dec], predownloaded AP count [dec]	Predownload Total and Completed AP count mismatched	ewcap-image	LOG_STD_NO_ACTION
[illegible]	6-Information	Sending master-going-down message to other APs so that they backoff for 5 minutes for existing active controller to be active after reload	To prevent EWC-Capable AP's from becoming EWC-AP controller when current controllr goes through reload, send master-going-down message to them so they wait 5 minutes for the current controller to reboot and become controller again	ewcap-image	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CAPWAP_IMGDWNLD_TRACE_MESSAGE-6-CAPWAP_IMGDWNLD_WC_CAPWAP_WRONG_STATE	6-Information	Network upgrade is not in correct state. Please do 'install remove profile default', and try again	Network Upgrade is not in correct state. Please cancel and try again	ewcap-image	Try 'install remove profile default'
CAPWAP_IMGDWNLD_TRACE_MESSAGE-6-TRACE_EXPORT_TEST	6-Information	Btrace log export test event: Testing Log Export Feature	GUI Triggered Flow to test Log Export Feature	ewcap-image	LOG_STD_NO_ACTION
CERT-1-CERT_EXPIRED	1-Alert	Certificate expired	This alert syslog is generated when the certificate used for DTLS/TLS connection towards SD-WAN controller has expired. Control connection to controllers will not come up as a result of this catastrophic failure	vip-certificate	Please contact Cisco TAC
CERT-1-CERT_EXPIRING	1-Alert	Certificate expiring soon. Time remaining: [dec] [chars]	This alert syslog is generated to warn impending certificate expiry	vip-certificate	New certificate should be installed prior to expiring. Please contact Cisco TAC for assistance

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CERT-3-CERT_STORE_INIT_FAILED	3-Error	Certificate store init failed	This error syslog is generated when certificate store initialization fails. Control connection to controllers will not come up as a result of this failure	vip-certificate	Please contact Cisco TAC and open a support ticket for this issue
CERT-5-CERT_INSTALLED	5-Notice	A new certificate has been installed	This notice syslog is generated when a new certificate is installed	vip-certificate	No action is required
CERT-5-CERT_STAGED	5-Notice	A new certificate has been staged	This notice syslog is generated when a new certificate is staged	vip-certificate	No action is required
CERT-5-CERT_UNINSTALLED	5-Notice	Certificate has been uninstalled	This notice syslog is generated when an installed certificate is uinstalled by administrative action	vip-certificate	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CERT-5-CERT_UNSTAGED	5-Notice	A certificate has been unstaged	This notice syslog is generated when a certificate is unstaged	vip-certificate	No action is required
CERT-5-NEW_CSR_GENERATED	5-Notice	New certificate signing request generated	This notice syslog is generated whenever new certificate signing request is generated	vip-certificate	No action is required
CERT-5-ROOT_CA_CRL_INSTALLED	5-Notice	Root CA CRL has been installed	This notice syslog is generated when a root CA Certificate Revocation List is installed	vip-certificate	No action is required
CERT-5-ROOT_CA_CRL_UNINSTALLED	5-Notice	Certificate has been uninstalled	This notice syslog is generated when a root CA Certificate Revocation List is uninstalled by administrative action	vip-certificate	No action is required

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CERT-5-ROOT_CERT_CHAIN_INSTALLED	5-Notice	Root certificate chain installed	This notice syslog is generated when a root certificate chain is installed	vip-certificate	No action is required
CERT-5-ROOT_CERT_CHAIN_UNINSTALLED	5-Notice	Root certificate chain uninstalled	This notice syslog is generated when an installed root certificate chain is uninstalled by administrative action	vip-certificate	No action is required
CERT_MGR_ERRMSG-3-CERT_MGR_GENERAL_ERR	3-Error	General error: [chars]	General cert mgr lib error message	ewlc-ap	LOG_STD_ACTION
CERT_MGR_ERRMSG-3-CERT_VALIDATION_ERR	3-Error	Certificate Validation Error, [chars]	General Wireless LAN Controller Error Message.	ewlc-ap	LOG_STD_ACTION
CERT_MGR_ERRMSG-3-FIPS_VALIDATION_X509_EXT_KEY_USAGE_LSC_CA_CERT	3-Error	LSC CA certificate not generated with CA flag true	LSC CA certificate not generated with CA flag true	ewlc-ap	LOG_STD_ACTION
CERT_MGR_ERRMSG-3-FIPS_SUITABILITY_ERR	3-Error	FIPS Compliance: [chars]	General cert mgr lib error message	ewlc-ap	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CERT_MGR_ERRMSG-3-PKI_SSL_IPC_RESP_ERR	3-Error	IPC Respone Error, [chars]	General Wireless LAN Controller Error Message.	ewlc-ap	LOG_STD_ACTION
CERT_MGR_ERRMSG-3-WLANCC_UPDATE_ERR	3-Error	Failed to send WLAN CC (Commit Criteria) update to PKI IOSd due to database error	General Wireless LAN Controller Error Message.	ewlc-ap	LOG_STD_ACTION
CERT_MGR_ERRMSG-4-CERT_MGR_WARNING	4-Warning	Warning, [chars]	General Wireless LAN Controller warning message	ewlc-ap	LOG_STD_ACTION
CERT_MGR_ERRMSG-6-FIPS_SUITABILITY_INFO	6-Information	FIPS Compliance: [chars]	General cert mgr lib error message	ewlc-ap	LOG_STD_ACTION
CFGMGR-3-ADMIN_PASSWD_UNCHANGED	3-Error	Failed to set new admin password	This syslog is generated when the default password of admin account is not updated due to an error. This could occur during bootup when the system is initializing	cdecontrap	Please retry updating default password for admin account. If admin password cannot be updated after couple of attempts, please contact Cisco TAC for assistance

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CFGMGR-4-ADMIN_PASSWD_CHANGE_DEFERRED	4-Warning	New admin password not set yet, waiting for daemons to read initial config	This syslog is generated when the system is initializing and user tries to update default password of admin account. Once bootup completes, config database is unlocked and admin password can be changed	cdb-config-startup	This should be a temporary log, if the log continues to be seen on console, please contact Cisco TAC for assistance
CFGMGR-6-ADMIN_PASSWD_CHANGED	6-Information	Successfully set new admin password	This info syslog is generated when the default password of admin account is updated	cdb-config-startup	No action is required
CFMGR_LOG-4-COUNTRY_CFG_DEPRECATED_CLI	4-Warning	[chars]: 'ap country <coutry-code>' is deprecated, instead use 'wireless country <country-code>'	'ap country <code>' cli has been has been deprecated, Please start using 'wireless country <code>' instead	ewlc-rrm	Please start using new form of cli mentioned in the explanation message

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CFMGR_LOG-4-UNSUPPORTED_AP_DTLS_CIPHER	4-Warning	Unsupported AP DTLS ciphersuite: [chars]	Unsupported ciphersuite for AP DTLS in a given security mode	ewlc-ap	No action required
CFMGR_LOG-7-CFG_DOWNLOAD_LOG_MSG	7-Debug	Scheduled Config Download: [chars]	Config Download info	iosxe-infra-utils	No action required
CGM_NGWC-3-NOMEM	3-Error	No Enough Shared Memory in CGM\n	The configuration is too large.	INVALID	Check the existing ACL configuration.\n
CHASFS-3-NOCHASFSDIR	3-Error	The directory [chars] does not exist.	No explanation.	iosxe-chassis-mgr	LOG_STD_NO_ACTION
CHASFS-3-NOINOTIFY	3-Error	The inotify device could not be opened. Error [dec].	This error occurs when there is an error in the system that prevents the notification facility from being accessed.	iosxe-chassis-mgr	LOG_STD_NO_ACTION
CHASFS-3-NOOPEN_PROPERTY	3-Error	Error opening chassis file system object [chars]: [chars]	An application was not able to open a an object in its local chassis file system.	iosxe-chassis-mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CHASFS-3-NORESOLVE_LOCAL_OBJECT	3-Error	Error resolving local FRU object: [chars]	An application was not able to create a reference to an object in its local chassis file system.	iosd-chassis-mgr	LOG_STD_RECUR_ACTION
CIA-0-CPA_INITIALIZATION	0-Emergency	cpa_init failed, return code: [dec]	cpa_init has failed. This might be because CPA south bound libraries are missing or a mapping of CPA libraries to PD_TYPE missing in cpa_fru_dbconf	iosd-chassis-mgr	Review cpa logs
CIA-0-CPA_INITIALIZATION_LITE	0-Emergency	cpa_init_lite failed, return code: [dec]	cpa_init_lite has failed. This might be because CPA south bound libraries are missing or a mapping of CPA libraries to PD_TYPE missing in cpa_fru_dbconf	iosd-chassis-mgr	Review cpa logs

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CLIENT_EXCLUSION_AUDIT_MESSAGE-3-AUDIT_FAILED_CLIENT_ASSOCIATION_REJECTED	3-Error	Client [chars] association rejected and excluded, reason: [chars]	Client association rejected because of excluding	ewlc-client	LOG_STD_ACTION
CLIENT_EXCLUSION_SERVER-5-ADD_TO_EXCLUSION_LIST_REASON	5-Notice	Client [chars] was added to exclusion list, reason: [chars]	Client was added to exclusion list	ewlc-client	Message notification informing about the client was added to exclusion list
CLIENT_EXCLUSION_SERVER-5-ADD_TO_EXCLUSION_LIST_REASON_DYNAMIC	5-Notice	Client [chars] was added to exclusion list associated with AP Name:[chars], BSSID:[chars], reason:[chars]	Client was added to exclusion list	ewlc-client	Message notification informing about the client was added to exclusion list
CLIENT_HA_SVC_MESSAGE-3-EWLC_RECREATE_ERR	3-Error	Heap recreate failure in module [chars]. [chars]	Failure seen during heap recreate	iosxe-binos-utils	LOG_STD_ACTION
CLIENT_IPV6_TRACE_MESSAGE-3-CLIENT_IPV6_CRIT_ERR	3-Error	client_ipv6 Error: [chars]	Client IPv6 Error Message.	iosxe-binos-utils	LOG_STD_ACTION
CLIENT_IPV6_TRACE_MESSAGE-4-CLIENT_IPV6_WARN	4-Warning	client_ipv6 Warning: [chars]	Client IPv6 Warning Message.	iosxe-binos-utils	LOG_STD_ACTION
CLIENT_ORCH_AUDIT_MESSAGE-3-AUDIT_SKEY_CLIENT_UNABLE_UPDATE_BROADCAST_KEYS_CLIENT	3-Error	User ID: [chars] - Unable to update broadcast keys to Client	Unable to update broadcast keys to Client	ewlc-client	LOG_STD_ACTION
CLIENT_ORCH_AUDIT_MESSAGE-3-AUDIT_SKEY_M2_MIC_DEFLECTION_ATTACK	3-Error	User ID: [chars] - Deflection attack detected from this mobile	Deflection attack detected from this mobile	ewlc-client	LOG_STD_RECUR_ACTION
CLIENT_ORCH_AUDIT_MESSAGE-3-AUDIT_SKEY_M2_MIC_INVALID_KEY_DATA_LEN	3-Error	User ID: [chars] - Invalid key data length	Invalid key data length	ewlc-client	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CLIENT_ORCH_AUDIT_MESSAGE-3-AUDIT_CCKM_2_MKN_INVALID_KEY_TYPE	3-Error	User ID: [chars] - Invalid key type	Invalid key type	ewlc-client	LOG_STD_RECUR_ACTION
CLIENT_ORCH_AUDIT_MESSAGE-3-AUDIT_CCKM_2_MKN_INVALID_MIC	3-Error	User ID: [chars] - Received Invalid MIC in EAPOL Key Message handshake	Received Invalid MIC in EAPOL Key Message handshake	ewlc-client	LOG_STD_RECUR_ACTION
CLIENT_ORCH_AUDIT_MESSAGE-3-AUDIT_CCKM_2_MKN_INVALID_MIC_M2	3-Error	User ID: [chars] - Received Invalid MIC in EAPOL Key Message M2	Received Invalid MIC in EAPOL Key Message M2	ewlc-client	LOG_STD_RECUR_ACTION
CLIENT_ORCH_AUDIT_MESSAGE-3-AUDIT_CCKM_2_MKN_INVALID_REPLAY_WINDOW	3-Error	User ID: [chars] - Invalid Replay Window	Invalid Replay Window	ewlc-client	LOG_STD_RECUR_ACTION
CLIENT_ORCH_AUDIT_MESSAGE-3-AUDIT_CCKM_2_MKN_INVALID_SECURE_BIT	3-Error	User ID: [chars] - Invalid secure bit	Invalid secure bit	ewlc-client	LOG_STD_RECUR_ACTION
CLIENT_ORCH_AUDIT_MESSAGE-3-AUDIT_CCKM_2_MKN_ZERO_MIC	3-Error	User ID: [chars] - Zero MIC received	Zero MIC received	ewlc-client	LOG_STD_RECUR_ACTION
CLIENT_ORCH_AUDIT_MESSAGE-3-AUDIT_CCKM_2_PKT_UNABLE_TO_SEND_SSN_KEY_TO_AP	3-Error	User ID: [chars] - Unable to send Session key to AP	Unable to send Session key to AP	ewlc-client	LOG_STD_ACTION
CLIENT_ORCH_AUDIT_MESSAGE-3-AUDIT_FATSE_DENY_CLIENT_ACCESS	3-Error	User ID: [chars] - - Client association denied as it is not in Active Hours slot [chars]	Received association request in non-active hours	ewlc-client	LOG_STD_RECUR_ACTION
CLIENT_ORCH_AUDIT_MESSAGE-6-AUDIT_MSG_EXT_CLIENT_ASSOC_RCVD_FROM_MOBILE	6-Information	[chars] [chars]: [chars] Association received from mobile on BSSID [chars] AP [chars]	Association received from mobile on BSSID	ewlc-client	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CLIENT_ORCH_GUEST_LAN_LOG-3-CLIENT_JOIN_FAILED	3-Error	Wired Guest client [chars] failed joining on vlan [dec] physical interface [chars]. Reason: [chars]	Wired Guest client failed joining	ewlc-client	If this message occurs, client failed joining and was deleted.
CLIENT_ORCH_GUEST_LAN_LOG-3-CLIENT_JOIN_FAILED_NO_MAC	3-Error	Refusing creation of wired Guest client with no MAC on vlan [dec] physical interface [dec].	Wired Guest client failed joining	ewlc-client	If this message occurs, client failed joining and was deleted.
CLIENT_ORCH_GUEST_LAN_LOG-5-CLIENT_JOIN_IGNORED	5-Notice	Already existing client [chars] join request on vlan [dec] and physical interface [chars] was ignored	A request to join the client was ignored because the client is already connected	ewlc-client	No action is required
CLIENT_ORCH_GUEST_LAN_LOG-7-CLIENT_RECEIVED	7-Debug	Wired Guest Client [chars] join request received on vlan [dec] - interface [chars]	New Wired Guest client join received	ewlc-client	No action is required
CLIENT_ORCH_LOG-3-CLIENT_TRACEBACK	3-Error	Error in [chars]	General Client Error Message.	ewlc-client	LOG_STD_ACTION
CLIENT_ORCH_LOG-4-ANCHOR_INVALID_MBSSID	4-Warning	Export anchor required but config is incorrect (e.g.: wlan should be up, wlan profile name and policy profile name should match) for: Wlan-Profile: [chars], Policy Profile: [chars], client [chars]	Export anchor required but config is incorrect (e.g.: wlan should be up, wlan profile name and policy profile name should match)	ewlc-guest	If this message occurs, it implies that Wlan needs to be up or wlan profile name and policy profile name need to match

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CLIENT_ORCH_LOG-4-ANCHOR_INVALID_WLAN_ID	4-Warning	Export anchor required but unable to get wlan id for: Wlan-Profile: [chars], Policy Profile: [chars], client [chars]	Export anchor required but unable to get wlan id	ewlc-guest	If this message occurs, it implies that Wlan name is not configured
CLIENT_ORCH_LOG-4-ANCHOR_NOT_EXPORT_WLAN	4-Warning	Export anchor required but wlan not configured as mobility export anchor for: Wlan-Profile: [chars], Policy Profile: [chars], client [chars]	Export anchor required but wlan not configured as mobility export anchor	ewlc-guest	If this message occurs, it implies that Wlan is not configured as mobility export anchor
CLIENT_ORCH_LOG-4-ANCHOR_VAP_SECURITY_MISMATCH	4-Warning	Export anchor required but local and remote security/profile configuration is not matching for: Wlan-Profile: [chars], Policy-Profile: [chars] client [chars]	Export anchor required but local and remote security/profile configuration (wlan and/or policy profile) is not matching	ewlc-guest	If this message occurs, it implies that local and remote wlan and policy profiles need to have the same security or configuration settings
CLIENT_ORCH_LOG-4-ANCHOR_WEBAUTH_ON_MAB_NOT_CONFIGURED	4-Warning	Export anchor: webauth on mac failure configuration mismatch between anchor and foreign for: Wlan-Profile: [chars], Policy Profile: [chars], client [chars]	Webauth on Mac Failure configuration mismatch between anchor and foreign	ewlc-guest	If this message occurs, it implies that Wlan on anchor or foreign is not configured for webauth on mac failure

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CLIENT_ORCH_LOG-5-ADD_TO_EXCLUSIONLIST_MAC_THEFT_REASON	5-Notice	Client [chars] with IP: [chars] was added to exclusion list, legit ifid: 0x%08x, current ifid: 0x%08x, reason: [chars]	Blacklisting client on MAC address theft.	ewlc-client	If this message occurs, it implies that there was MAC address theft.
CLIENT_ORCH_LOG-5-ADD_TO_EXCLUSIONLIST_REASON	5-Notice	Client [chars] with IP: [chars] was added to exclusion list, legit Client [chars], IP: [chars], reason: [chars]	Blacklisting client on IP address theft or MAC address theft or IP and MAC address theft.	ewlc-client	If this message occurs, it implies that there was IP theft or MAC address theft or IP and MAC address theft.
CLIENT_ORCH_LOG-5-EASYPSK_CLIENT_DELETED	5-Notice	Easy-PSK client [chars] : client deleted due because AAA exchange failed reason [chars].	Easy-PSK client was deleted because of AAA Exchange failure.	ewlc-client	If this message occurs, it implies that client was deleted due to AAA exchange failure.
CLIENT_ORCH_LOG-5-WEBAUTH_ON_MAB_FAILURE_ROAMING_DENIED	5-Notice	Client [chars] : Roaming denied, reason: [chars]	Roaming denied for Webauth on MAB failure client.	ewlc-client	If this message occurs, it means that roaming occurred with controllers with different MAC authentication lists.
CLIENT_ORCH_LOG-6-AUTHZ_MAX_STA_ON_AP	6-Information	Detected client [chars] exceeding max capacity ([dec]) of AP [chars].	Client exceeds the maximum capacity of AP.	ewlc-wips	LOG_STD_NO_ACTION
CLIENT_ORCH_LOG-6-CLIENT_ADDED_TO_RUN_STATE	6-Information	Username entry ([chars]) joined with ssid ([chars]) for device with [chars] on channel ([dec])	Details for client when it goes to run state	ewlc-client	If this message occurs, it implies that client successfully went to RUN state

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
CLIENT_ORCH_LOG-7-CLIENT_IP_UPDATED	7-Debug	Username ([chars]), [chars], IP [chars]IP address updated, [chars] to AP ([chars]) with SSID ([chars])	Details for client when it goes to run state	ewlc-client	If this message occurs, it implies that client successfully went to RUN state
CLIENT_ORCH_LOG-7-CLIENT_MOVED_TO_DELETE_STATE	7-Debug	Username ([chars]), [chars], IP [chars]disconnected from AP ([chars]) with SSID ([chars])	Details for client when it goes to delete state	ewlc-client	If this message occurs, it implies that client successfully went to DELETE state
CLIENT_ORCH_LOG-7-CLIENT_MOVED_TO_RUN_STATE	7-Debug	Username ([chars]), [chars], IP [chars][chars] to AP ([chars]) with SSID ([chars]) on channel ([dec])	Details for client when it goes to run state	ewlc-client	If this message occurs, it implies that client successfully went to RUN state
CLIENT_ORCH_VLAN_OVERRIDE_LOG-7-CLIENT_VLAN_OVERRIDE	7-Debug	Client [chars] on wlan [chars] and policy profile [chars] received a vlan override after web-authentication and it is moved to the new VLAN to learn a new IP	The client received a vlan override after web authentication	ewlc-client	No action is required
CLIENT_ORCH_VLAN_OVERRIDE_LOG-7-CLIENT_VLAN_OVERRIDE_TIMEOUT	7-Debug	Client [chars] on wlan [chars] and policy profile [chars] failed to re-associate and learn a new IP after the VLAN Override and is deleted	The client needs to re-associate within 30s after a vlan override otherwise it is deleted.	ewlc-client	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CLIENT_ORCH_VLAN_OVERRIDE_LOG-7-FOREIGN_CLIENT_VLAN_OVERRIDE	7-Debug	Export foreign client [chars] on wlan [chars] and policy profile [chars] received a vlan override from export anchor	The export foreign client received a vlan override from anchor	ewlc-client	No action is required
CLONE_MGR-5-NODE_LOCATION_CHANGED	5-Notice	Node location changed to node id: [dec]	Node Id changed by configuration	ewlc-ha	No action is required
CLONE_MGR-5-RIPC_LINK_DOWN	5-Notice	RIPC link status DOWN reason: [chars]	RIPC link status set to DOWN	ewlc-ha	No action is required
CLONE_MGR-5-RIPC_LINK_UP	5-Notice	The RIPC link is UP.	The RIPC link is connected between the nodes	ewlc-ha	No action is required
CLONE_MGR-5-RIPC_LINK_UP_FAIL	5-Notice	Failed to bringup RIPC as conditions not met: rp_link: [chars] sw_compatible: [chars] self_gw: [chars] peer_gw: [chars]	Failed to bringup RIPC between nodes	ewlc-ha	No action is required
CLONE_MGR-5-SHADOW_REC_PURGE_COMPLETE	5-Notice	Shadow records purge completed.	Purging of shadow records done.	ewlc-ha	No action is required
CLONE_MGR-5-SHADOW_REC_PURGE_START	5-Notice	Shadow records purge started, HA event reason: [chars]	Fault event detected, purge started	ewlc-ha	No action is required
CLOUDM_ONBOARDING_DAEMON-3-CLOUDM_ONBOARDING_HTTPCONERROR	3-Error	[chars] with HTTP connection error: [chars].	received an httpcon error while onboarding controller	cloudm	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CLOUDM_ONBOARDING_DRACONITY-3-CLOUDM_ONBOARDING_HTTP_ERROR	3-Error	[chars] with HTTP status code [dec].	received an http error while onboarding controller	cloudm	LOG_STD_NO_ACTION
CLOUDM_ONBOARDING_DRACONITY-6-CLOUDM_ONBOARDING_SUCCESS	6-Information	Successfully [chars]	Successfully onboarded, otp updgraded, or received access token for device	cloudm	LOG_STD_NO_ACTION
CLOUDM_ONBOARDING_SPACES-3-CLOUDM_ONBOARDING_SPACES_AUTH_TOKEN_ERR	3-Error	Cisco Spaces persistent credentials could not be installed for [chars]	Spaces persistent credential installation went through errors	cloudm	If this message occurs, it means persistent credentials for Spaces could not be installed for errors
CLOUDM_ONBOARDING_SPACES-3-CLOUDM_ONBOARDING_SPACES_OTP_INSTALL_ERR	3-Error	Cisco Spaces OTP could not be installed for [chars]	Spaces OTP installation went through errors	cloudm	If this message occurs, it means OTP for Spaces could not be installed for errors
CLOUDM_ONBOARDING_SPACES-6-CLOUDM_ONBOARDING_SPACES_ACCESS_TOKEN	6-Information	Cisco Spaces access token has been updated.	Updated access token for Spaces	cloudm	If this message occurs, it means access-token for Spaces have been installed
CLOUDM_ONBOARDING_SPACES-6-CLOUDM_ONBOARDING_SPACES_ACCESS_TOKEN_ERR	6-Information	Cisco Spaces access token could not be installed for [chars]	Spaces access token installation went through errors	cloudm	If this message occurs, it means access token for Spaces could not be installed for errors
CLOUDM_ONBOARDING_SPACES-6-CLOUDM_ONBOARDING_SPACES_AUTH_TOKEN	6-Information	Cisco Spaces persistent credentials have been installed	Installed persistent credentials for Spaces	cloudm	If this message occurs, it means client-credentials for Spaces have been installed

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CLOUDM_ONBOARDING_SPACES-6-CLOUDM_ONBOARDING_SPACES_OTP_INSTALL	6-Information	Cisco Spaces OTP has been installed	Installed OTP for Spaces	cloudm	If this message occurs, it means OTP for Spaces has been installed
CLOUDM_TEST-6-HTTP_RESPONSE	6-Information	Completed: [chars]	Result of the test request	iosxe-ui	LOG_STD_NO_ACTION
CLOUD_MGMT_MGRD-3-CLOUD_MGMT_INTFC_SETUP_ERR	3-Error	Cloud_Mgmt interface setup error: [dec]	Initial cloud_mgmt interface setup failed - cannot bringup config updater	polaris-aurora	Retry reconfiguring service cloud_mgmt connect
CLOUD_MGMT_MGRD-3-MIG_PKG_VERIFY_ERR	3-Error	Migration: installed package verification failed	Installed package validation failed in mode migration	polaris-aurora	No action is required
CLOUD_MGMT_MGRD-3-MIG_PKG_VERIFY_TIMEOUT_ERR	3-Error	Migration: installed package validation exceeded timeout 90 seconds	Installed package validation exceeded timeout 90 seconds	polaris-aurora	No action is required
CLOUD_MGMT_MGRD-5-CLOUD_MGMT_FSM_START_FAILED	5-Notice	Cloud_Mgmt FSM failed to start	Cloud_Mgmt mgrd FSM failed to start	polaris-aurora	No action is required
CLOUD_MGMT_MGRD-5-CLOUD_MGMT_RESET_NOTIFICATION	5-Notice	: Reset Notification [chars]	Reset recovery message	polaris-aurora	No action is required
CLOUD_MGMT_MGRD-5-CLOUD_MGMT_RESET_RECOVERY	5-Notice	: Reset recovery [chars]	Reset recovery message	polaris-aurora	No action is required
CLOUD_MGMT_MGRD-5-CONFIG_MONITOR_ERR	5-Notice	Config Monitor ERR: [chars]	Config monitor err message	polaris-aurora	No action is required

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CLOUD_MGMT_MGRD-5-CONFIG_MONITOR_NOTIF	5-Notice	Config Monitor: [chars]	Config monitor message	polaris-aurora	No action is required
CLOUD_MGMT_MGRD-5-CONFIG_UPDATER_ERR	5-Notice	Config Updater ERR: [chars]	Config Updater err message	polaris-aurora	No action is required
CLOUD_MGMT_MGRD-5-CONFIG_UPDATER_NOTIF	5-Notice	Config Updater: [chars]	Config Updater message	polaris-aurora	No action is required
CLOUD_MGMT_MGRD-5-CURL_FETCH_ERR	5-Notice	Curl Fetch ERR: [chars]	Curl Fetch error message	polaris-aurora	No action is required
CLOUD_MGMT_MGRD-5-PRI_TUNNEL_STATE	5-Notice	Primary Tunnel State: [chars]	Primary tunnel state change notification	polaris-aurora	No action is required
CLOUD_MGMT_MGRD-5-SEC_TUNNEL_STATE	5-Notice	Secondary Tunnel State: [chars]	Secondary tunnel state change notification	polaris-aurora	No action is required
CLUSTERMGR-1-FAST_RLD	1-Alert	Fast reloading due to reason [chars]	The specified switch has received a reload request and is being fast reloaded.	polaris-clustering	No action is required
CLUSTERMGR-1-PLATFORM_MISMATCH	1-Alert	\n Platform mismatch detected. A stack cannot be formed with peer switch: [chars]	The peer switch is incompatible and cannot join the stack.	polaris-clustering	Replace peer switch with platform compatible switch

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CLUSTERMGR-1-RELOAD	1-Alert	\n Reloading due to reason [chars]	The specified switch has received a reload request and is being reloaded.	platform-clustering	No action is required
CLUSTERMGR-4-SWITCH_REMOVED	4-Warning	[chars] [dec] has been removed from the stack.\n	The specified switch has been removed from the stack.	platform-clustering	No action is required
CLUSTERMGR-6-DUAL_ACTIVE_LINK_DOWN_MSG	6-Information	\n Dual Active Detection links are not available anymore	Switch detected unavailability of Dual Active Detection ports.	platform-clustering	No action is required
CLUSTERMGR-6-DUAL_ACTIVE_LINK_UP_MSG	6-Information	\n Dual Active Detection link is available now	Switch detected availability of Dual Active Detection ports.	platform-clustering	No action is required

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMAN_IDPROM_ENVMON-3-CMAN_IDPROM_FIELD_INVALID	3-Error	The idprom contains an invalid environmental monitoring field.	If this error occurs then parsing of the environmental monitoring data is aborted. Environmental monitoring will be either incomplete or absent entirely.	iosd-chassismgr	LOG_STD_RECUR_ACTION
CMAN_INIT-1-CMAN_BOOT_FAIL	1-Alert	CMAN: [chars]\n	CMAN Initialization has failed.	iosd-chassismgr	Find out more about the error by using the show tech-support privileged EXEC command 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.
CMAN_INIT-1-CMAN_INIT_FAIL	1-Alert	CMAN: [chars]\n	CMAN Initialization has failed.	iosd-chassismgr	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMAN_LED-6-BEACON_LED_TURNED	6-Information	Slot [dec] Beacon LED turned [chars]	Beacon LED turned ON/OFF. This is a notification message only.No action is required.	ios-chassis-mgr	This is a notification message only. No action is required.
CMAN_LED-6-CHASSIS_BEACON_LED_TURNED	6-Information	Chassis Beacon LED turned [chars]	Beacon LED turned ON/OFF. This is a notification message only.No action is required.	ios-chassis-mgr	This is a notification message only. No action is required.
CMAN_NYQ-1-CMAN_INIT_FAIL	1-Alert	CMAN: [chars]\n	CMAN Initialization has failed.	ios-chassis-mgr	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMAN_SEM-2-SEM_ERR	2-Critical	SEM event has occurred in device [chars]. Event code: [dec]	A Single Event Upset (SEU) event has occurred in one of the FPGA. These events may occur at any point of time, but are considered to be rare.	iosd-chassismgr	If the error is seen only once, there is no need for anything to be done. If these errors are appearing continuously/persistently, please copy over the logs as they appear in the console, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.
CMAN_THERMAL-1-THERMAL_GREEN_THRESHOLD	1-Alert	Hotspot temperature has exceeded GREEN threshold\n	The switch is too cold.	iosd-chassismgr	Check the switch's environment is a safe operating temperature. If problem persists, replace the switch.
CMAN_THERMAL-1-THERMAL_RED_THRESHOLD	1-Alert	Hotspot temperature has exceeded RED threshold. Switch will shutdown soon.\n	The hotspot temperature is critically overheated. The switch will soon shutdown to prevent permanent damage.	iosd-chassismgr	Check the switch's environment is a safe operating temperature. If problem persists, replace the switch.
CMAN_THERMAL-2-THERMAL_YELLOW_THRESHOLD	2-Critical	Hotspot temperature has exceeded YELLOW threshold\n	The hotspot temperature is too high. Improve cooling immediately.	iosd-chassismgr	Check the switch's environment is a safe operating temperature. If problem persists, replace the switch.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMCC-0-C2W_INITIALIZATION	0-Emergency	The SIP C2W has failed initialization because [chars]	The C2W bus on the SIP is used to read the shared port adapter (SPA) IDPROM. This error indicates that the SIP C2W bus failed to initialize.	hardware	Examine the logs for C2W driver errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?pid=1, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-CHASFS_LOCATION_TRANSLATE	0-Emergency	Failed to translate a location to a chasfs object name because [chars]	The system failed to translate a data sensor location to the chassis filesystem (CHASFS) module. This error could be caused by a software defect.	chassis	Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-CHASFS_OBJECT_CREATE	0-Emergency	Failed to create chassis filesystem object [chars] because [chars]	The system failed to create a chassis filesystem object. This error could be caused by a software defect or a filesystem failure.	chassis	Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-CHASFS_OBJECT_NOT_PRESENT	0-Emergency	Expected chassis filesystem object [chars] not present.	The system was unable to find an expected chassis filesystem object. This error could be caused by a software defect or a filesystem failure.	ios-chassis	Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMCC-0-CHASFS_OBJECT_WATCH	0-Emergency	Failed to watch chassis filesystem object [chars] because [chars]	The system failed to watch a chassis filesystem object. This error could be caused by a software defect or a filesystem failure.	chassis	Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMCC-0-CHASFS_PROPERTY_CREATE	0-Emergency	Failed to create chassis filesystem object [chars] property [chars] because [chars]	The system failed to create a chassis filesystem object property. This error could be caused by a software defect or a filesystem failure.	cmcc-chassis	Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMCC-0-CHASFS_PROPERTY_GET	0-Emergency	Failed to read chassis filesystem object [chars] property [chars] because [chars]	The system failed to read a chassis filesystem object property. This error could be caused by a software defect or a filesystem failure.	chassis	Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-CHASFS_PROPERTY_NOT_PRESENT	0-Emergency	Expected chassis filesystem object [chars] property [chars] not present.	The system cannot locate a chassis filesystem object property. This error could be caused by a software defect or a filesystem failure.	ios-chassis	Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-CHASFS_PROPERTY_SET	0-Emergency	Failed to write chassis filesystem object [chars] property [chars] because [chars]	The system failed to write a chassis filesystem object property. This error could be caused by a software defect or a filesystem failure.	chassis	Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-CHASSIS_TYPE	0-Emergency	The chassis type [chars] is invalid.	The system has detected an invalid chassis type. This error could be caused by a hardware defect, software defect, or incorrect IDPROM content.	ios-chassis-mgr	Examine the logs for IDPROM or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=tac_open.html or contact your Cisco technical support representative and provide the representative with the gathered information.
CMCC-0-CPLD_INITIALIZATION	0-Emergency	The SIP CPLD has failed initialization :[chars]	A SIP complex programmable logic device (CPLD) failed to initialize. This error could be caused by a hardware or software driver defect.	ios-chassis-mgr	Examine the logs for CPLD driver or hardware errors. Verify that the software and CPLD versions are compatible.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-CPLD_INTR_ENABLE	0-Emergency	The CPLD initialization has failed because [chars]	The CPLD interrupt enable failed to initialize. This error could be caused by a hardware defect or CPLD driver defect.	ios-chassis	Examine the logs for CPLD driver or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-CPLD_IOCTL	0-Emergency	A CPLD driver I/O control has failed because [chars]	A complex programmable logic device (CPLD) I/O driver control has failed. This error could be caused by a hardware or software driver defect.	ios-chassis	Examine the logs for CPLD driver and hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?referring_site=bugtool or contact your Cisco technical support representative and provide the representative with the gathered information
CMCC-0-EVENT_LIBRARY	0-Emergency	An event facility initialization or maintenance function failed because [chars]	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	ios-chassis	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-FLOW_CONTROL_MBE	0-Emergency	Multi-bit ECC error seen, Cause [chars], MIP100 is going to be reloaded to recover	Non correctable multi bit errors were detected in the FPGA.	hardware	MIP100 is reloaded to correct the error. If the problem persists, the MIP100 hardware may need to be replaced.
CMCC-0-FPGA_INITIALIZATION	0-Emergency	The CC has failed initialization because [chars]. Reloading the card	The FPGA on the carrier card has failed to initialize. This error could be caused by a hardware	hardware	Examine the driver logs or hardware errors. Decode the core accompanied with this error.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-HTDP_ENABLE	0-Emergency	The HTDP initialization has failed because [chars]	The Hypertransport datapath failed to initialize. This error could be caused by a hardware defect or HTDP driver defect.	ios-cmcc	Examine the logs for HTDP driver or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-HT_INITIALIZATION	0-Emergency	The SIP HyperTransport has failed initialization because [chars]	A SIP HyperTransport (HT) CPU bus failed to initialize. This error could be caused by a hardware defect or HT driver defect.	hardware	Examine the logs for HT driver or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMCC-0-HT_IOCTL	0-Emergency	A SIP HyperTransport driver I/O control has failed because [chars]	A physical layer interface module (PLIM) HyperTransport (HT) driver I/O has failed. This error could be caused by a hardware defect or HT driver defect.	ios-chassis-mgr	Examine the logs for HT driver or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.
CMCC-0-IPC_CONNECTION_INVALID	0-Emergency	An IPC connection has invalid state.	An inter-process communication (IPC) connection has an invalid state. This error could be caused by a software defect or system resource limitation.	ios-chassis-mgr	Restart the SIP.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-IPC_CONNECT_MASTER	0-Emergency	IPC connection to the active RP failed because [chars]	The inter-process communication (IPC) connection to the active route processor (RP) failed. This error could be caused by a software defect or system resources limitation.	ios-chassis-mgr	Restart the SIP.
CMCC-0-IPC_INITIALIZATION	0-Emergency	IPC initialization failed because [chars]	An inter-process communication (IPC) initialization failed. This error could be caused by a software defect or system resource limitation.	ios-chassis-mgr	Restart the SIP.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-PCI_RESCAN	0-Emergency	The PCIE bus could not be rescanned because [chars]	The PCIE bus failed to rescan. This error could be caused by a hardware defect, software driver defect, or improper internal configuration.	ios-chassis	Examine the logs for PCIE bus driver and hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information
CMCC-0-PEER_INVALID	0-Emergency	A peer table entry has invalid state.	An invalid state occurred in a peer table entry. This error could be caused by a software defect or system resource limitation.	ios-chassis	Restart the SIP.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-PLIM_HALT	0-Emergency	A PLIM driver has critical error [chars], [dec], param %x param %x	A physical layer interface module (PLIM) HyperTransport (HT) driver I/O has failed. This error could be caused by a hardware defect or an HT driver defect.	cmcc	Restart the SIP. If the problem persists, you may need to replace the PLIM.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMCC-0-PLIM_INITIALIZATION	0-Emergency	The PLIM has failed initialization because [chars]	The physical layer interface module (PLIM) failed to initialize. This error could be caused by a hardware defect or a PLIM driver defect.	chassis	Examine the logs for PLIM driver or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-PLIM_IOCTL	0-Emergency	A PLIM driver I/O control has failed because [chars]	A physical layer interface module (PLIM) driver I/O has failed. This error could be caused by a hardware defect or a PLIM driver defect.	ios-ha-mgr	Examine the logs for PLIM driver or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-SERDES_INITIALIZATION	0-Emergency	The SIP Serial Bridge ASIC has failed initialization because [chars]	The SIP serial bridge ASIC failed to initialize. This error could be caused by a hardware defect, software driver defect, or improper internal configuration.	ios-chassis	Examine the logs for serial bridge ASIC driver and hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?referring_site=bugtool or contact your Cisco technical support representative and provide the representative with the gathered information
CMCC-0-SERVICES_INITIALIZATION	0-Emergency	Failed to initialize general application services because [chars]	The system failed to initialize certain application services. This error could be caused by a software defect or system resource limitation.	ios-chassis	Restart the SIP.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-0-UIPEER_CREATE	0-Emergency	Failed to create user interface peer.	The system failed to create a user interface peer. This error could be caused by a software defect or system resource limitation.	cmcc-assign	Restart the SIP.
CMCC-2-BAD_ID_HW	2-Critical	Failed Identification Test in [chars]. The module [chars] on the slot [dec] may not be a genuine Cisco product. Cisco warranties and support programs only apply to genuine Cisco products. If Cisco determines that your insertion of non-Cisco memory, WIC cards, AIM cards, Network Modules, SPA cards, GBICs or other modules into a Cisco product is the cause of a support issue, Cisco may deny support under your warranty or under a Cisco support program.	Hardware in the specified location could not be identified as a genuine Cisco product	platform-infra	Replace the hardware with a genuine Cisco product. If this message recurs, contact your Cisco technical support representative and provide the representative with the gathered information

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-2-BAD_ID_HW_SLOT_STR	2-Critical	Failed Identification Test in [chars]. The module [chars] on the [chars] may not be a genuine Cisco product. Cisco warranties and support programs only apply to genuine Cisco products. If Cisco determines that your insertion of non-Cisco memory, WIC cards, AIM cards, Network Modules, SPA cards, GBICs or other modules into a Cisco product is the cause of a support issue, Cisco may deny support under your warranty or under a Cisco support program.	Hardware in the specified location could not be identified as a genuine Cisco product	cmcc-ha-mgr	Replace the hardware with a genuine Cisco product. If this message recurs, contact your Cisco technical support representative and provide the representative with the gathered information
CMCC-2-CC_SPA_MOVE_SM	2-Critical	***** CMCC SPA SM was strucked for a minute in state: s_kill_wait for slot [dec], moving the state machine	CMCC SPA SM was strucked for a minute in state: s_kill_wait for the line card.	cmcc-ha-mgr	move the cmcc spa state machine.
CMCC-2-CC_SPA_PSM_READY_NOT_RCVD	2-Critical	***** CMCC did not received PSM READY event [dec] sec for slot [dec].	CMCC SPA SM was not received PSM READY for 100 sec.	cmcc-ha-mgr	do remove hard.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-2-CC_SPA_STRUCK	2-Critical	***** CMCC SPA SM was strucked for [dec] seconds for slot [dec].	CMCC SPA SM was strucked for a minute in state: s_kill_wait for the line card.	iosd chassis mgr	move the cmcc spa state machine.
CMCC-2-FRU_HWPRG_UPG_FAILED	2-Critical	Failed to [chars] [chars] hardware programmable on [chars] in [chars].	Upgrade hw-programmable failed to upgrade the CPLD/FPGA firmware on the given FRU	iosd chassis mgr	Reload the card and retry to program the hw-programmable. If the card fails to come up please contact TAC
CMCC-2-FRU_HWPRG_UPG_SUCCESS	2-Critical	Success to [chars] [chars] hardware programmable on [chars]. Please execute the POST Upgrade CLI: upgrade hw-programmable cable <r0/r1> daybreak post-upgrade slot <slot> to finish the upgrade process	Upgrade hw-programmable success to upgrade the CPLD/FPGA firmware on the given FRU	iosd chassis mgr	No action is required. This is informational message
CMCC-2-FRU_IOFPGA_UPG_FAILED	2-Critical	Failed to upgrade field programmable device on [chars] in slot [dec].	Upgrade of field programmable device failed	iosd chassis mgr	Reload the card and retry to program the field programmable device. If the card fails to come up please contact TAC
CMCC-2-FRU_IOFPGA_UPG_LC_PWR_CYCLE_DONE	2-Critical	Power cycled the [chars] in slot [dec], after FPGA upgrade.	Power cycled the card after FPGA upgrade.	iosd chassis mgr	Line card has been power cycled after FPGA upgrade.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-2-FRU_IOFPGA_UPG_SUCCESS	2-Critical	Successfully upgraded the field programmable device on [chars] in slot [dec]. Power-cycling the line card.	Upgrade field programmable device was successful on the given FRU. Line card needs to be power-cycled or removed and re-inserted for upgrade to take effect.	ios-chassis-mgr	Line card needs to be power cycled or removed and re-inserted for the upgrade to take effect.
CMCC-2-FRU_LC_PWR_RESET	2-Critical	***** Detected power reset for the Line card in slot [dec]. To recover from the error, Line card will brought up shortly	Detected Auto power reset(may be HW issue) for the Linecard.	ios-chassis-mgr	Pseudo OIR of the Line card has been to recover/bring up the card.
CMCC-3-C2W_READ	3-Error	An C2W read has failed because [chars]	An attempt to read the C2W bus has failed. This error could be caused by a hardware or software defect.	ios-chassis-mgr	Examine the logs for C2W driver errors.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMCC-3-C2W_WRITE	3-Error	An I2C write has failed because [chars]	An attempt to write to the inter-integrated circuit (I2C) has failed. This error could be caused by a hardware or software defect.	chassis mgr	Examine the logs for I2C driver errors.
CMCC-3-CARD_MISMATCH	3-Error	The CONFIG&PICTYPE in slot [dec] mismatch : CONFIG : [chars], PIC : [chars]	The CMD and PIC in the slot mismatch.	chassis mgr	Shut down the LC and change the card mode or remove the pic card.
CMCC-3-CC_HOTSWAP_CKT_FAIL	3-Error	Hot Swap Circuit has failed for bay [dec]	The Hot Swap Circuit for the SPA bay has been tripped. This error could be caused by bad SPA or CC hardware.	chassis mgr	Examine the CMCC and PSM OIR logs. Verify whether the recovery reload could bring up the SPA
CMCC-3-DDR_SINGLE_BIT_ERROR	3-Error	Single-bit DRAM ECC error: mme: [dec], sbe: [dec], address: 0x%08X, pid: [dec], name: [chars]	The SIP DRAM experienced a single-bit error checking code (ECC) error.	chassis mgr	No action is required. This error is usually self-correcting. If the problem persists, you may need to replace the SIP.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-3-FLOW_CONTROL_SBE	3-Error	Single-bit ECC error seen, Cause [chars]	Self correctable single bit errors were detected in the FPGA	hardware	This error is usually self-correcting. If the problem persists, the MIP100 hardware may need to be replaced.
CMCC-3-FPGA_FAIL	3-Error	[chars] FPGA error detected: [chars]	A SIP field programmable logic device failure detected. This error could be caused by a hardware or software driver defect.	hardware	Examine the logs for FPGA driver or hardware errors. Verify that the software and firmware versions are compatible.
CMCC-3-HB_TIMEOUT	3-Error	Periodic Heartbeat message from RP timed out.	RP sends periodic heartbeat message to the SIP. The SIP did not receive this heartbeat message for last timeout period.	hardware	Examine the system logs for errors.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMCC-3-HT_DETACH	3-Error	The SIP HyperTransport has failed detachment because [chars]	A SIP HyperTransport (HT) CPU bus failed to detach from software during SIP MDR. This error could be caused by a hardware defect or HT driver defect.	hardware	Examine the system logs for errors.
CMCC-3-IDPROM_ACCESS	3-Error	Failed access or process an IDPROM because [chars]	The system failed to access an IDPROM or an IDPROM process failed. This error could be caused by a hardware defect, software defect, or incorrect IDPROM content.	hardware	Examine the logs for IDPROM or hardware errors.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-3-IDPROM_SENSOR	3-Error	One or more sensor fields from the idprom failed to parse properly because [chars].	One or more IDPROM sensors failed to parse. This error most likely occurred because of a checksum failure in the IDPROM.	chassis mgr	Examine the logs for IDPROM or hardware errors.
CMCC-3-INCOMPATIBLE_STANDBY_SUPERVISOR	3-Error	Standby supervisor in slot [dec] is not compatible with the Active supervisor; Standby Supervisor will be reloaded.	Supervisor found in Standby slot may not be fully compatible with the active supervisor and may cause issues.	chassis mgr	Use supervisors with the same specifications to enable High Availablitly features.
CMCC-3-LC_FPGA_UPGRADE_FAIL	3-Error	The FPGA upgrade request for linecard in switch [dec] slot [dec] failed.	Upgrade of FPGA on the linecard failed	chassis mgr	Reload the card and retry to program the field programmable device. If the card fails to come up please contact TAC
CMCC-3-LC_FPGA_UPGRADE_PWR_CYCLE_FAIL	3-Error	Power cycle failed for the linecard in switch [dec] slot [dec], after FPGA upgrade.	Power cycle failed for the linecard after FPGA upgrade.	chassis mgr	OIR the card and retry to program the field programmable device. If the card fails to come up please contact TAC

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-3-MASTERSHIP_WATCH	3-Error	Failed to initialize a watch on the active rp because [chars]	The cc process has failed to setup a watch on the rp chasfs active-rp property. This error is likely caused by a problem with chasfs as a whole.	ios-chassis	Examine the logs to determine the exact reason for the failure.
CMCC-3-MESSAGE_RESPONSE	3-Error	An invalid message response was received because [chars]	An invalid message response was received. This could be due to a software defect or system resource exhaustion.	ios-chassis	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-3-NETWORK_CLOCK_CAL_FAIL	3-Error	The SIP network clock jitter attenuator calibration fails	The SIP network clock jitter attenuator calibration can not complete within certain time. This would incur some SPA LOS alarms or other error events for some SPA port types.	ios-sip-sw	Restart the SIP
CMCC-3-NETWORK_CLOCK_CAL_START	3-Error	The SIP network clock jitter attenuator is calibrating	The SIP network clock jitter attenuator is calibrating after device initilization stage.	ios-sip-sw	Restart the SIP if SPA LOS alarms are seen after this.
CMCC-3-NETWORK_CLOCK_DH	3-Error	The SIP network clock jitter attenuator has entered digital holdover	A SIP network clock jitter attenuator has entered digital holdover mode and certain SPAs may report LOS alarms.	ios-sip-sw	Restart the SIP.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMCC-3-NETWORK_CLOCK_LOS	3-Error	The SIP network clock jitter attenuator has lost signal	A SIP network clock jitter attenuator has lost signal from the WAN PLL and certain SPAs may report LOS alarms.	hw-clock-mgr	Restart the SIP.
CMCC-3-PLIM_DETACH	3-Error	The PLIM has failed detachment from software because [chars]	The physical layer interface module (PLIM) failed to detach from software. This error could be caused by a hardware defect or a PLIM driver defect.	hw-clock-mgr	Examine the system logs for errors.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-3-PLIM_RESTART	3-Error	The PLIM has failed to restart because [chars]	The physical layer interface module (PLIM) failed to restart during SIP MDR. This error could be caused by a hardware defect or a PLIM driver defect.	chassis mgr	Examine the system logs for errors.
CMCC-3-PLIM_STATUS	3-Error	A PLIM driver informational error [chars], block %x count %x	A physical layer interface module (PLIM) HyperTransport (HT) driver I/O has failed. This error could be caused by a hardware defect or an HT driver defect.	chassis mgr	Examine the logs for PLIM or hardware errors.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-3-SCOOBY_ILAK_FAIL	3-Error	Failed to bringup the Interlaken interface. Cause: [chars]	Interlaken Rx or Tx failed for this card. This error could be caused by a hardware or software driver defect.	chassis	Reload the Linecard. If the problem still persists, replace the Linecard.
CMCC-3-SIP_MDR_FAIL	3-Error	The SIP failed Minimal Disruptive Restart because [chars]	The SIP failed Minimal Disruptive Restart. Minimal Disruptive Restart process is aborted and an attempt will be made to recover the SIP by resetting the SIP hardware.	chassis	Examine the system logs for errors.
CMCC-3-SPA_HOTSWAP_CKT_FAIL	3-Error	SPA on bay [dec] has tripped the Hot Swap Circuit during power-up.	The Hot Swap Circuit for te SPA bay has been tripped. This error could be caused by bad SPA hardware.	chassis	Examine the CMCC and PSM OIR logs. Verify whether the recovery reload could bring up the SPA

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMCC-3-SPA_MDR_FAIL	3-Error	The SPA in bay [dec] failed Minimal Disruptive Restart because [chars]	The SPA in bay %u failed Minimal Disruptive Restart. Minimal Disruptive Restart process is aborted and an attempt will be made to recover the SPA by resetting the SPA hardware.	ios-chassis-mgr	Examine the system logs for errors.
CMCC-3-SPA_ONLINE_REQ_TERMINATE	3-Error	The online request for SPA in subslot [dec]/[dec] was terminated because [chars]	The online request for SPA in subslot %d/%u was terminated.	ios-chassis-mgr	Examine the system logs for errors.
CMCC-3-SPA_PSEUDO_HARD_OIR_VFT_NOT_IMPLEMENTED	3-Error	The PSEUDO OIR VFT is not implemented for bay [dec]	The pseudo OIR vft not implemented for this platform	ios-chassis-mgr	Do nothing

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-3-SPA_SOFT_STOP_FAIL	3-Error	The SPA in bay [dec] could not be soft stopped because [chars]	The SPA in bay %u could not be soft stopped. An attempt will be made to recover the SPA by resetting the SPA hardware.	chassis	Examine the system logs for errors.
CMCC-3-SSD_PIDA_OIR	3-Error	Hot insertion/removal of SSD module in [dec]/[dec] not supported. Please reload the router with SSD module installed in bay 3	Hot swapping of SSD is not supported	chassis	Reload the router with SSD module installed in bay 3.
CMCC-3-STANDBY_EOBC_LINK_ERROR	3-Error	Standby EOBC link error detected.	Standby EOBC link error: either link state is down, or duplexity is not full, or speed is not 1Gbps.	chassis	Examine the system hardware. Re-seat and securely screw in all FRUs. If the problem persists, please contact TAC support.
CMCC-3-UNKNOWN_3RDPARTY_MODULE	3-Error	Unknown 3rd-party module was inserted in subslot [dec]/[dec]. please check whether the 3rdparty-mode is configured for this subslot	Unknown 3rd-party module was inserted in the given subslot.	chassis	Examine the system logs for errors.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-3-UNKNOWN_SPA_LC	3-Error	Unknown SPA was inserted in slot [dec]	Unknown SPA was inserted in the given slot.	ios-chassis-mgr	Remove the unsupported SPA line card and upgrade the software as needed.
CMCC-3-UNSUPPORTED_LC_TYPE	3-Error	An unsupported card of type [chars] is inserted in slot [dec] of the chassis. Remove the card from the chassis or upgrade to an image which supports the card	Unsupported line card was inserted in the given slot.	ios-chassis-mgr	Remove the unsupported SPA line card and upgrade the software as needed.
CMCC-5-C9400X_LC	5-Notice	C9400X-SUP-2 supports 240G per slot with [chars] installed in Slot [dec]	Informational message that 480G Linecard is installed in the chassis with Supervisor card that supports only 240G per slot.	ios-chassis-mgr	Informational notification. No action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-5-CMCC_EZMAN_HB_MISS_EXCEED	5-Notice	CMCC Missed [dec] Heartbeats from EZMAN, Reloading the Line Card	CMCC Monitors the Health of the EZMAN by keeping a track of the Heartbeat messages. In case the EZMAN gets stuck in a event under watchdog disable context (sw_wdg_dbl) then the CMCC will stop getting these updates. The CMCC after a certain period of time would reset the card, since EZMAN is unresponsive	asr1k-ether-lc	Reload the card, a software initated to restart the EZMAN

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMCC-5-SERDES_BLOCK_EVENT	5-Notice	A SerDes link informational error [chars], block %x count %x	A serial bridge I/O event has occurred. This event is not serious but is logged for diagnostic purposes.	ios-chassis-mgr	No user action is required.
CMCC-5-SERDES_RX_RESET_EVENT	5-Notice	Interlaken Rx Alignment Status [chars], Retry Count [dec]	Rx Sync Failed for Interlaken, Status Timer Expired. So, Resetting the Rx Interlaken Core	ios-chassis-mgr	No user action is required.
CMCC-5-SPA_MDR_DONE	5-Notice	SPA[dec] completed Minimal Disruptive Restart	Informational message that the Minimal Disriptive Restart of a particular SPA has completed.	ios-chassis-mgr	Informational notification. No action is required.
CMCC-5-SPA_MDR_INIT	5-Notice	SPA[dec] initiated Minimal Disruptive Restart	Informational message that the Minimal Disriptive Restart of a particular SPA has begun.	ios-chassis-mgr	Informational notification. No action is required.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMCC-6-FLOW_CONTROL_OTHER	6-Information	Flow control error seen, Cause [chars]	Flow control error is detected in the FPGA	iosd chassis mgr	Appropriate action is taken in software to correct this error. If the problem persists, the MIP100 hardware may need to be replaced.
CMCC-6-FRU_HWPRG_UPG_ADM1266_CFG_SUCCESS	6-Information	Hardware programmable ADM1266 Configurations on [chars] in slot [chars] were successfully programmed.	The hw programmable ADM1266 configuration was upgraded succesfully	iosd chassis mgr	No action is required. This is informational message
CMCC-6-FRU_HWPRG_UPG_LMK03328_CFG_RESET	6-Information	Hardware programmable LMK03328 Configurations on [chars] in slot [chars] were successfully partially programmed, please reload it to continue programming.	The hw programmable LMK03328 configuration was partially upgraded succesfully	iosd chassis mgr	No action is required. This is informational message
CMCC-6-FRU_HWPRG_UPG_LMK03328_CFG_SUCCESS	6-Information	Hardware programmable LMK03328 Configurations on [chars] in slot [chars] were successfully programmed.	The hw programmable LMK03328 configuration was upgraded succesfully	iosd chassis mgr	No action is required. This is informational message
CMCC-6-FRU_HWPRG_UPG_PSOC_PREPARE	6-Information	Hardware programmable PSOCs on [chars] in slot [chars] were set in the golden mode. The card will reload to finish the upgrading	The hw programmable PSOCs were set in the golden mode for FPD	iosd chassis mgr	No action is required. This is informational message

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMCC-6-FRU_HWPRG_UPG_PSOC_START	6-Information	Hardware programmable PSOCs on [chars] in slot [chars] are upgrading, please don't reload or power-cycle this card. It will take about 2 mins to finish.	The hw programmable PSOC is upgrading	ios-chassis-mgr	No action is required. This is informational message
CMCC-6-FRU_HWPRG_UPG_PSOC_SUCCESS	6-Information	Hardware programmable PSOCs on [chars] in slot [chars] were successfully programmed. The card will reload to make new firmware work.	The hw programmable PSOC was upgraded succesfully	ios-chassis-mgr	No action is required. This is informational message
CMCC-6-FRU_HWPRG_UPG_TPS40422_CFG_RESET	6-Information	Hardware programmable TPS40422 Configurations on [chars] in slot [chars] were successfully partially programmed, please reload it to continue programming.	The hw programmable TPS40422 configuration was partially upgraded succesfully	ios-chassis-mgr	No action is required. This is informational message
CMCC-6-FRU_HWPRG_UPG_TPS40422_CFG_SUCCESS	6-Information	Hardware programmable TPS40422 Configurations on [chars] in slot [chars] were successfully programmed.	The hw programmable TPS40422 configuration was upgraded succesfully	ios-chassis-mgr	No action is required. This is informational message

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-6-FRU_IOFPGA_UPG_START	6-Information	Field programmable device on [chars] in slot [dec] is being upgraded. It will take about 2 mins to finish the upgrade. Please do not reload or power-cycle this card while upgrade is in progress.	The field programmable device on the FRU is upgrading	ios-chassis-mgr	No action is required. This is informational message
CMCC-6-FRU_LC_UPGRADE_REQD	6-Information	Found mismatch between the Line card FPGA versions bundled in Software and programmed in Hardware in slot [dec]. FPGA version bundled in SW: %x, present in HW: %x. To upgrade the FPGA to version bundled in SW, perform physical OIR of the line card or run the CLI: hw-module subslot <slot>/<SPA no.> oir power-cycle	New FPGA is bundled in SW. FPGA upgrade is needed.	ios-chassis-mgr	To upgrade to latest FPGA, do physical OIR Line card or do Pseudo OIR of the line card using CLI: hw-module subslot <slot>/<SPA no.> oir power-cycle; To view the present FPGA versions in chassis, use the CLI: show firmware version all

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMCC-6-FRU_UPGRADE_REQD	6-Information	Slot [dec] needs firmware upgrade. Firmware upgrade is traffic impacting. To perform firmware upgrade use any of the 3 options: Option 1: Perform physical removal and insertion of the line card. Option 2: Run the <CLI> 'hw-module subslot [dec]/0 oir power-cycle' </CLI>. Option 3: Perform manual upgrade using <CLI> 'upgrade hw-programmable all filename bootflash: all' </CLI>. Use <CLI>'show firmware version all'</CLI> to know the mismatch	New version bundled in Software & Current Hardware running version is not latest. upgrade is needed. please follow the options provided	chassis	To perform firmware upgrade use any of the 3 options: Option 1: Perform physical removal and insertion of the line card Option 2: Run the <CLI> 'hw-module subslot <slot>/0 oir power-cycle' </CLI> Option 3: Perform manual upgrade using <CLI> 'upgrade hw-programmable all filename bootflash: all' </CLI> Use <CLI>'show firmware version all'</CLI> to know the mismatch

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-6-FRU_VER_MISMATCH	6-Information	[chars]: Found mismatch between the versions bundled in Software and programmed in Hardware in slot [dec]. Version Present in HW: %x, Version present in SW Bundle: %x.	New FW is bundled in SW. FW upgrade is needed.	ios-chassis-mgr	To perform firmware upgrade use any of the 3 options: Option 1: Perform physical removal and insertion of the line card Option 2: Run the <CLI> 'hw-module subslot <slot>/0 oir power-cycle' </CLI> Option 3: Perform manual upgrade using <CLI> 'upgrade hw-programmable all filename bootflash: all' </CLI> Use <CLI>'show firmware version all'</CLI> to know the mismatch
CMCC-6-LC_FPGA_UPGRADE_NOT_REQUIRED	6-Information	FPGA version on linecard in switch [dec] slot [dec] is 0x%x	Upgrade of FPGA on the linecard is not required.	ios-chassis-mgr	No action required.
CMCC-6-LC_FPGA_UPGRADE_PWR_CYCLE_DONE	6-Information	Power cycled the linecard in switch [dec] slot [dec], after FPGA upgrade.	Power cycled the linecard after FPGA upgrade.	ios-chassis-mgr	No action required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-6-LC_FPGA_UPGRADE_START	6-Information	Linecard fpga device in switch [dec] slot [dec] is being upgraded. It will take about 5 mins to complete the upgrade Linecard will power-cycled automatically during this process. Please do not reload or power-cycle the linecard when upgrade is in progress	The fpga device on the linecard is upgrading	ios-chassismgr	No action required.
CMCC-6-LC_FPGA_UPGRADE_SUCCESS	6-Information	Successfully upgraded the field programmable device on linecard in switch [dec] slot [dec]. The line card will be power cycled	Upgrade field programmable device was successful on the given FRU. Linecard needs to be power-cycled or removed and re-inserted for upgrade to take effect.	ios-chassismgr	Line card needs to be power cycled or removed and re-inserted for the upgrade to take effect.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC-6-MGMT_SFP_INSERT	6-Information	transceiver module inserted in [chars]	The online insertion and removal (OIR) facility detected a newly inserted transceiver module for the interface specified in the error message.	ios-chassis-mgr	No action required.
CMCC-6-MGMT_SFP_REMOVED	6-Information	Transceiver module removed from [chars]	The online insertion and removal (OIR) facility detected the removal of a transceiver module from the interface specified in the error message.	ios-chassis-mgr	No action required.
CMCC_CBR-4-PROC_DOWN	4-Warning	Process [chars] is down	A process on the given FRU went down	ios-chassis-mgr	Check the logs on the FRU for exact cause. If cause is not known please contact TAC

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMCC_CBR-4-PROC_RESTART	4-Warning	Process [chars] restarted. Please undo and redo any config changes made during process restart	A process on the given FRU was restarted	iosd chassismgr	Check the logs on the FRU for exact cause. If cause is not known please contact TAC
CMCC_LED-6-BEACON_LED_TURNED	6-Information	Slot [dec] Beacon LED turned [chars]	Beacon LED turned ON/OFF. This is a notification message only.No action is required.	iosd chassismgr	This is a notification message only. No action is required.
CMDMA-2-FPGA_DOWNLOAD_FAILED	2-Critical	Critical Error is detected while downloading the FPGA. After this card will reboot.	Due to timing issue in DMA sometime FPGA download failure is seen	iosd chassismgr	Contact your Cisco technical support representative and provide the system report and crash file.
CMDMA-6-FPGA_DOWNLOAD_INFO	6-Information	[chars] fpga DMA download [chars]	This is informative message about the start/complete of the fpga DMA download	iosd chassismgr	No action required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMEM-3-SENSOR_INIT_FAILED	3-Error	Sensor ([chars]) initialization failed due to [chars].	This error indicates that environmental monitor software cannot initialize the sensor. The software will not register and monitor this sensor. This could occur when the IDPROM has a bad I2C address for this sensor.	iosxe-infra-utils	LOG_STD_RECUR_ACTION
CMEM-4-OBFL_INIT_FAILED	4-Warning	OBFL initialization failed.	This error indicates the OBFL dedicated filesystem is not mounted. OBFL diagnostic information will not be retained for customer troubleshooting	iosxe-infra-utils	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMFC-0-CHASFS_PROPERTY_CREATE	0-Emergency	Failed to create chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property was not properly created.	iosd chassismgr	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.
CMFC-0-CHASFS_PROPERTY_SET	0-Emergency	Failed to write chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property failed to write.	iosd chassismgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMFC-3-IDPROM_ACCESS	3-Error	Failed to access or process IDPROM '[chars]': [chars]	Failed access or process an IDPROM. This could be due to a hardware defect, software defect or incorrect IDPROM content.	chassis mgr	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.
CMFP-0-CPLD_INITIALIZATION	0-Emergency	CPLD initialization has failed because [chars]	The CPLD has failed to initialize. This could be due to a hardware or software driver defect.	chassis mgr	Examine the hardware and CPLD driver logs and see if the logs provide information about a correctable 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMFP-0-CPLD_IOCTL	0-Emergency	A CPLD driver I/O control has failed because [chars]	A complex programmable logic device (CPLD) I/O driver control has failed. This error could be caused by a hardware or software driver defect.	ios-chassis-mgr	Examine the logs for CPLD driver and hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?referring_site=bugtool or contact your Cisco technical support representative and provide the representative with the gathered information
CMFP-0-EVENT_LIBRARY	0-Emergency	An event facility initialization or maintenance function failed because [chars]	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	ios-chassis-mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMFP-0-SPI4_MUX_HALT	0-Emergency	SPI4 MUX driver has detected a critical error [chars]	A SPI4 MUX driver has failed or detected a critical hardware fault. This could be due to a hardware defect or driver defect.	chassis	The only corrective action is to restart the FP
CMFP-2-BAD_ID_HW	2-Critical	Failed Identification Test in [chars]. The module [chars] may not be a genuine Cisco product. Cisco warranties and support programs only apply to genuine Cisco products. If Cisco determines that your insertion of non-Cisco memory, WIC cards, AIM cards, Network Modules, SPA cards, GBICs or other modules into a Cisco product is the cause of a support issue, Cisco may deny support under your warranty or under a Cisco support program.	Hardware in the specified location could not be identified as a genuine Cisco product	platform	Replace the hardware with a genuine Cisco product. If this message recurs, contact your Cisco technical support representative and provide the representative with the gathered information.
CMFP-2-FPGA_DOWNLOAD_FAILED	2-Critical	Critical Error is detected while downloading the FPGA. After this card will reboot.	Due to timing issue in DMA sometime FPGA download failure is seen	chassis	Contact your Cisco technical support representative and provide the system report and crash file.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMFP-2-UADP_EVENT	2-Critical	UADP EVENT (ASIC #[dec] [chars])	Unified Access Datapath ASIC Event	ios-chassis-mgr	Copy the message exactly as it appears on the console or in the system log.
CMFP-3-CPLD_ECSR_ERROR	3-Error	An error has been detected on the ECSR bus	An error has been detected on the ECSR bus. This may cause problems when accessing the fowarding processor	ios-chassis-mgr	Some of these errors are catastrophic and others are not. If the FRU did not restart assume corrective action was taken. Please check the chassis-manager logs for errors.
CMFP-3-CPLD_ERP_ERROR	3-Error	An error has been detected on the ERP bus (cause [dec], phase [dec])	An error has been detected on the ERP bus. This may cause problems when accessing the fowarding processor	ios-chassis-mgr	Some of these errors are catastrophic and others are not. If the FRU did not restart assume corrective action was taken. Please check the chassis-manager logs for errors.
CMFP-3-DDR_SINGLE_BIT_ERROR	3-Error	Single-bit DRAM ECC error: mme: [dec], sbe: [dec], address: 0x%08X, pid: [dec], name: [chars]	A single-bit data corruption error has occurred in the forwarding processor (FP).	ios-chassis-mgr	These errors are self-correcting. If the problem persists, the FP hardware may need to be replaced.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMFP-3-DPP_MAC_LINK_ERROR	3-Error	DPP Mac Link failed [chars]	One or more Mac links of DPP blocks failed. It could be because of a configuration error or hardware failure.	chassis	Note the time of the error message and examine show hardware platform cman fp for detailed Report.
CMFP-3-DPP_SERDES_SYNC_ERROR	3-Error	UADP fabric interface synchronisation [chars]	One of more UADP fabric interface Serdes failed to sync, This could be due to a hardware defect.	chassis	No action is required.
CMFP-3-FPGA_IMG_ABSENT	3-Error	FPGA image is absent please contact Cisco technical support representative.	Due to corruption is file system FPGA images are deleted.	chassis	Contact your Cisco technical support representative and provide the tracelogs.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMFP-3-HB_TIMEOUT	3-Error	Periodic Heartbeat message from RP timed out.	RP sends periodic heartbeat message to the ESP. The ESP did not receive this heartbeat message for last timeout period.	infrastructure	Examine the system logs for errors.
CMFP-3-HT_FATAL_ERROR	3-Error	Failed to initialize the HyperTransport interface to the QFP	The HyperTransport interface to the QFP failed to initialize completely. Software will restart the ESP to recover	infrastructure	No action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMFP-3-IDPROM_ACCESS	3-Error	Failed access or process an IDPROM because [chars]	Access to an IDPROM failed due to a hardware or software defect, or incorrect IDPROM content.	hardware	Examine the system logs for IDPROM and hardware errors. Copy the error message and related information exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl or contact your Cisco technical support representative and provide the representative with the gathered nformation.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMFP-3-IDPROM_SENSOR	3-Error	One or more sensor fields from the idprom failed to parse properly because [chars].	Output from the IDPROM sensors failed to parse, commonly caused by a checksum failure in the IDPROM.	hardware	Examine the system logs for IDPROM and hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?referring_site=bugtool or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMFP-3-MASTERSHIP_UPDATE	3-Error	An error ([chars]) has occurred while communicating the mastership role of this FP to the CPP. The FP is currently [chars]	An error occurred while communicating a change in the state (Active, Active with a Standby, or Standby) of the forwarding processor (FP). The error can cause an inconsistency of expected states between FPs and could affect the replication of state between the FPs.	ios-chassis	Examine the system logs for errors. This error is usually temporary.
CMFP-3-MASTERSHIP_WATCH	3-Error	Failed to initialize a watch on the active rp because [chars]	The fp process has failed to setup a watch on the rp chasfs active-rp property. This error is likely caused by a problem with chasfs as a whole.	ios-chassis	Examine the logs to determine the exact reason for the failure.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMFP-3-N2_DDR_MBE	3-Error	The encryption processor has detected an uncorrectable multi-bit error in memory at address [dec]	The encryption processor has detected an uncorrectable multi-bit in memory. This could be due to a hardware defect.	ios-chassis-mgr	Examine the logs for encryption processor hardware errors.
CMFP-3-N2_FATAL_ERROR	3-Error	An error has been detected on encryption processor: type [chars]	An error has been detected on encryption processor.	ios-chassis-mgr	Please check the chassis-manager logs for errors.
CMFP-3-N2_INPUT_EXCEPT	3-Error	Crypto device overloaded. : type [chars]: 0x%08X	An exception has been detected on encryption processor.	ios-chassis-mgr	Please lower crypto traffic rate. If the error still happens, encryption processor may stop processing. Need to reload ESP.
CMFP-3-OCT_DRV_ERROR	3-Error	An error has been detected on encryption processor: [chars]: [chars]	An error has been detected on encryption processor.	ios-chassis-mgr	Please check the chassis-manager logs for errors.
CMFP-3-SBUS_FATAL_ERROR	3-Error	SBUS Controller not responding, bringing down [chars]	Spico SBUS controller fails to repsond, This could be due to a hardware defect. Reset the CHIP	ios-chassis-mgr	No action is required.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMFP-3-SIF_SERDES_SYNC_ERROR	3-Error	Sif Serdes Sync Failed for Supervisor Failure Bitmap 0x%x	One of more Supervisor ASIC Sif Serdes failed to sync, This could be due to a hardeware defect.	chassis mgr	Note the time of the error message and examine the show hardware platform cman fp for detailed Sif Serdes Report.
CMFP-3-SPI4_MUX_STATUS	3-Error	SPI4 MUX driver has detected a informational error [chars] (occurred [dec] time(s))	A SPI4 MUX driver has failed or detected a information hardware fault. This could be due to a hardware defect or driver defect.	chassis mgr	Examine the logs for SPI4 MUX and hardware errors.
CMFP-3-STANDBY_EOBC_LINK_ERROR	3-Error	Standby EOBC link error detected.	Standby EOBC link error: either link state is down, or duplexity is not full, or speed is not 1Gbps.	chassis mgr	Examine the system hardware. Re-seat and securely screw in all FRUs. If the problem persists, please contact TAC support.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMFP-6-CRYPTO_MODULE	6-Information	Crypto Hardware Module is [chars]	The log is to indicate whether Crypto Hardware Module IPSECHW is physically inserted in the chassis.	iosd-chassis-mgr	No action is required.
CMFP-6-DPP_SERDES_SYNC	6-Information	UADP fabric interface synchronisation [chars]	The log is to indicate UADP fabric interface Serdes Sync succeeded during intialization of setup.	iosd-chassis-mgr	No action is required.
CMFP-6-N2_DRV_UPDATE	6-Information	Hardware crypto device disabled. [chars]: [chars]	A crypto device driver has failed or detected a hardware fault. This could be due to a hardware defect or driver defect.	iosd-chassis-mgr	The only corrective action is to restart the ESP
CMLIB-2-IDPROM_INVALID	2-Critical	Invalid IDPROM assembly number 0x%04X. IDPROM update required	IDPROM assembly number is not supported.	iosd-chassis-mgr	IDPROM update is required

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMLIB-3-THROUGHPUT_VALUE_APPLY_FAILED	3-Error	Throughput [chars] [chars] - failed to persist throughput of [chars] kbps. Error: [chars]	Status indicating that a failure was observed during the writing of the throughput to persistent store. The error reason may shed light on the cause. The throughput value may have be used to configure the CPP hardware.	iosxe-csl	Examine the ios, chassis-manager and license-manager logs for possible clues.
CMLIB-3-THROUGHPUT_VALUE_SETUP_FAILED	3-Error	Throughput [chars] [chars], throughput set to [chars] kbps. Error: [chars]	Status indicating that a failure was observed during the setup of the throughput. The error reason may shed light on the cause. The set value is used to configure the CPP hardware.	iosxe-csl	Examine the ios, chassis-manager and license-manager logs for possible clues.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMLIB-4-FW_CHECK	4-Warning	slot [chars]: [chars] current firmware version is [chars], while the minimum required version is [chars]. Please upgrade it to minimum required version or higher.	Firmware version in the specified location is lower than minimum required version	iosxe-chassis_mgr	Upgrade firmware version to latest.
CMLIB-6-THROUGHPUT_VALUE	6-Information	Throughput [chars] [chars], throughput set to [chars] kbps	Status indicating whether appropriate throughput is found or enabled and ensuring the value is used to configure the CPP hardware.	iosxe-csl	No user action is necessary. This is an informational message indicating that the throughput is configured.
CMRP-0-CHASFS_LOCATION_TRANSLATE	0-Emergency	Failed to translate a location to a chasfs object name because [chars]	The chassis manager failed to translate a location to a chasfs object name.	iosxe-chassis_mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-0-CHASFS_OBJECT_CREATE	0-Emergency	Failed to create chassis filesystem object [chars] because [chars]	The hardware failed to create a chassis filesystem object.	ios-chassis	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.
CMRP-0-CHASFS_OBJECT_NOT_PRESENT	0-Emergency	Expected chassis filesystem object [chars] not present.	A chassis filesystem object expected to be present is not. This could be due to a software defect or filesystem failure.	ios-chassis	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.
CMRP-0-CHASFS_OBJECT_WATCH	0-Emergency	Failed to watch chassis filesystem object [chars] because [chars]	A chassis filesystem object was not watched because of the reason stated in the error message.	ios-chassis	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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP-0-CHASFS_PROPERTY_CREATE	0-Emergency	Failed to create chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property was not properly created.	ios-chassis-mgr	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.
CMRP-0-CHASFS_PROPERTY_GET	0-Emergency	Failed to read chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property was not properly read by the system.	ios-chassis-mgr	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.
CMRP-0-CHASFS_PROPERTY_NOT_PRESENT	0-Emergency	Expected chassis filesystem object [chars] property [chars] not present.	A chassis filesystem object property expected to be present is not. This could be due to a software defect or filesystem failure.	ios-chassis-mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-0-CHASFS_PROPERTY_SET	0-Emergency	Failed to write chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property failed to write.	ios-chassis	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.
CMRP-0-CHASSIS_ID	0-Emergency	Error while updating chassis id, Error: [chars]	The chassis Id is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.	ios-chassis	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.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMRP-0-CHASSIS_STATUS	0-Emergency	Failed to get chassis hardware status because [chars]	The system failed to get the chassis hardware status.	iosxe-chassis-mgr	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.
CMRP-0-CHASSIS_TYPE	0-Emergency	The chassis type [chars] is invalid.	The chassis type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.	iosxe-chassis-mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-0-CLOCK_MASTERSHIP_SET	0-Emergency	Failed to set CLOCK mastership because [chars]	The router failed to establish CLOCK mastership.	iosd chassismgr	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.
CMRP-0-CPLD_INITIALIZATION	0-Emergency	The RP CPLD has failed initialization because [chars]	The RP CPLD has failed to initialize. This could be due to a hardware or software driver defect.	iosd chassismgr	Examine the hardware and CPLD driver logs and see if the logs provide information about a correctable 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.
CMRP-0-CPLD_IOCTL	0-Emergency	A CPLD driver I/O control has failed because [chars]	A CPLD driver I/O control has failed. This could be due to a hardware or software driver defect.	iosd chassismgr	Examine the hardware and CPLD driver logs and see if the logs provide information about a correctable 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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP-0-DDR_INITIALIZATION	0-Emergency	The RP DDR has failed initialization because [chars]	The RP DDR has failed to initialize. This could be due to a hardware or software driver defect.	ios-chassis-mgr	Note the time of the error message and examine the logs for DDR 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.
CMRP-0-EHSA_INITIALIZATION	0-Emergency	EHSA initialization has failed because [chars]	EHSA has failed initialization. This could be due to a hardware or software defect.	ios-chassis-mgr	Note the time of the error message and examine the logs for EHSA 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-0-EHSA_STATE_GET	0-Emergency	Failed to get EHSA state because [chars]	Failed to get EHSA state. This could be due to a hardware or software defect.	ios-chassis	Note the time of the error message and examine the logs for EHSA 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.
CMRP-0-EHSA_STATE_SET	0-Emergency	Failed to set EHSA state because [chars]	Failed to set EHSA state. This could be due to a hardware or software defect.	ios-chassis	Note the time of the error message and examine the logs for EHSA 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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP-0-EVENT_LIBRARY	0-Emergency	An event facility initialization or maintenance function failed because [chars]	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	ios-chassis-mgr	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.
CMRP-0-FP_MASTERSHIP_SET	0-Emergency	Failed to set FP mastership because [chars]	The router failed to establish ESP mastership.	ios-chassis-mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-0-HT_INITIALIZATION	0-Emergency	The RP HyperTransport has failed initialization because [chars]	The RP HyperTransport has failed initialization. This could be due to a hardware defect or HT driver defect.	chassis mgr	Note the time of the error message and examine the logs for HT driver 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.
CMRP-0-HT_IOCTL	0-Emergency	A RP HyperTransport driver I/O control has failed because [chars]	A RP HyperTransport driver I/O has failed. This could be due to a hardware defect or HT driver defect.	chassis mgr	Note the time of the error message and examine the logs for HT driver 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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP-0-I2C_INITIALIZATION	0-Emergency	The RP I2C has failed initialization because [chars]	The RP I2C has failed to initialize. These components provide low-level communications between the RP and the other cards in the system.	ios-chassis-mgr	Note the time of the error message and examine the logs for I2C 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.
CMRP-0-INTERNALS_INITIALIZATION	0-Emergency	Failed to initialize internal state because [chars]	The system failed to initilize the internal state for the reason mentioned in the error message.	ios-chassis-mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-0-INTERNAL_HW_SHUTDOWN	0-Emergency	Internal unrecoverable error condition was detected. System is being reset.	Internal unrecoverable error condition was detected, and so the system was reset. If this error condition reoccurs, the hardware may need to be replaced.	cmrp-mgr	LOG_STD_RECUR_ACTION
CMRP-0-INVALID_ARGUMENT	0-Emergency	A system function was given an invalid argument.	A system function was given an invalid argument. This is due to a software defect.	cmrp-mgr	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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP-0-IPC_CONNECTION_INVALID	0-Emergency	An IPC connection has invalid state.	An IPC connection has an invalid state. This could be due to a software defect or system resource exhaustion.	iosxe-chassis-mgr	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.
CMRP-0-IPC_CONNECT_MASTER	0-Emergency	IPC connection to the active RP failed because [chars]	IPC connection to the active RP failed. This could be due to a software defect or system resource exhaustion.	iosxe-chassis-mgr	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.
CMRP-0-IPC_CONNECT_REMOTE_IOS	0-Emergency	IPC connection to a remote IOSd failed because [chars]	IPC connection to a remote IOSd failed. This could be due to a software defect or system resource exhaustion.	iosxe-chassis-mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-0-IPC_INITIALIZATION	0-Emergency	IPC initialization failed because [chars]	IPC initialization failed. This could be due to a software defect or system resource exhaustion.	ios-chassis-mgr	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.
CMRP-0-MESSAGE_REGISTER	0-Emergency	Failed to register with active RP because [chars]	The active RP failed to register.	ios-chassis-mgr	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.
CMRP-0-MESSAGE_RELAY	0-Emergency	Failed to relay a message because [chars]	Failed to relay a message. This could be due to a software defect or system resource exhaustion.	ios-chassis-mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-0-MESSAGE_RESPONSE	0-Emergency	An invalid message response was received because [chars]	An invalid message response was received. This could be due to a software defect or system resource exhaustion.	iosd chassis mgr	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.
CMRP-0-MQIPC_ADVANCE	0-Emergency	Failed to advance MQIPC queue because [chars]	The MQIPC initialization failed.	iosd chassis mgr	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.
CMRP-0-MQIPC_INITIALIZATION	0-Emergency	MQIPC initialization failed because [chars]	MQIPC initialization failed. This could be due to a software defect or system resource exhaustion.	iosd chassis mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-0-PEER_TABLE	0-Emergency	A peer table initialization or maintenance function failed because [chars]	A peer table initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	ios-chassis	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.
CMRP-0-PLATFORM_FAMILY_TYPE	0-Emergency	The platform family type [chars] is invalid.	The platform family type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.	ios-chassis	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.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMRP-0-PWR_FAULT_INITIALIZATION	0-Emergency	Power fault monitor initialization has failed because [chars]	The power fault monitor has failed to initialize.	ios-chassis-mgr	Note the time of the error message and examine the Chassis Manager logs. 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.
CMRP-0-RESOLVE_FRU	0-Emergency	Failed to determine [chars] card because [chars]	The router failed to determine a FRU state.	ios-chassis-mgr	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.
CMRP-0-RESOURSE	0-Emergency	Resource allocation failed in [chars] because [chars]	The system is unable to allocate the requested resource.	ios-chassis-mgr	In most cases, this message is seen as a result of a temporary resource issue. Retry the request for the resource when the system is experiencing lower traffic volumes. If the message persists, reload the router using the reload command.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-0-ROLE_ADDRESS_UPDATE	0-Emergency	Failed to update role-based EOBC IP addresses because [chars].	The system failed to update a role-based EOBC IP address for the reason stated in the message line.	ios-chassis-mgr	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.
CMRP-0-SERDES_INITIALIZATION	0-Emergency	The RP Serial Bridge ASIC has failed initialization because [chars]	The RP Serial Bridge ASIC has failed to initialize. This could be due to a hardware defect, software driver defect or improper internal configuration.	ios-chassis-mgr	Note the time of the error message and examine the logs for Serial Bridge ASIC 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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP-0-SERDES_INTERRUPT_DISPATCH	0-Emergency	Serial Bridge interrupt dispatch error: [chars]	Failed to dispatch an error interrupt from the Serial Bridge. This could be due to a software defect or inconsistent internal state.	ios-chassis-mgr	Note the time of the error message and examine the logs for Serial Bridge 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.
CMRP-0-SERDES_IOCTL	0-Emergency	A Serial Bridge driver I/O control has failed because [chars]	A Serial Bridge driver I/O control has failed. This could be due to a hardware or software driver defect.	ios-chassis-mgr	Note the time of the error message and examine the logs for Serial Bridge 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-0-SERVICES_INITIALIZATION	0-Emergency	Failed to initialize general application services because [chars]	The system failed to initialize application services.	ios-chassis-mgr	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.
CMRP-0-SIGNAL_INITIALIZATION	0-Emergency	Failed to initialize signals because [chars]	The system failed to initialize signals.	ios-chassis-mgr	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.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMRP-0-SLOTS_INITIALIZATION	0-Emergency	Failed to initialize chassis slot information because [chars]	The system failed to initialize the chassis slot information.	ios-chassis-mgr	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.
CMRP-0-SLOT_INVALID	0-Emergency	A card absolute slot number cannot be determined for this chassis type	An absolute slot number is invalid. This could be due to a software defect or incorrect IDPROM content.	ios-chassis-mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-0-SYSPAGE_WRITE_ERROR	0-Emergency	The syspage chassis-type write has failed because [chars]	The syapge chassis-type write failed. This could be due to a software defect.	ios-chassis-mgr	Note the time of the error message and examine the Chassis Manager logs. 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.
CMRP-0-UIPEER_CREATE	0-Emergency	Failed to create user interface peer.	The system failed to create a user interface peer.	ios-chassis-mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-0-WANPLL_INITIALIZATION	0-Emergency	The RP WAN PLL has failed initialization because [chars]	The RP WAN PLL has failed to initialize. This could be due to a hardware or software driver defect.	ios-chassis	Note the time of the error message and examine the logs for WAN PLL 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-2-ACT2_UDI_DATA_INVALID	2-Critical	The act2 udi secure area format mismatch with unsecure area		platform-infra	Replace the current product with a Cisco authorised product. If this message recurs, contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
			This Router may not have been manufactured by Cisco or with Cisco's authorization. This product may contain software that was copied in violation of Cisco's license terms. If your use of this product is the cause of a support issue, Cisco may deny operation of the product, support under your warranty or under a Cisco technical support program such as Smartnet. Please contact Cisco's Technical Assistance Center for		

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
			more information.		
CMRP-2-BAD_ID_HW	2-Critical	Failed Identification Test in [chars]. The module [chars] may not be a genuine Cisco product. Cisco warranties and support programs only apply to genuine Cisco products. If Cisco determines that your insertion of non-Cisco memory, WIC cards, AIM cards, Network Modules, SPA cards, GBICs or other modules into a Cisco product is the cause of a support issue, Cisco may deny support under your warranty or under a Cisco support program.	Hardware in the specified location could not be identified as a genuine Cisco product	platform-infra	Replace the hardware with a genuine Cisco product. If this message recurs, contact your Cisco technical support representative and provide the representative with the gathered information.
CMRP-2-CRYPTOGRAPHIC_HW_MISMATCH	2-Critical	ESP[dec] does not support strong cryptography. Chassis will reload.	IOS software featuring strong cryptography is invalid for use with any non-strong-cryptography Embedded Service Processor. The router node will reload if this combination is encountered.	ios-chassis-mgr	Install a non-strong-cryptography image of the RP IOS package or replace the indicated Embedded Service Processor with one that supports strong-cryptography

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-2-FRU_CPLD_INCOMPATIBLE	2-Critical	[chars] in slot [chars] has been held in reset as its CPLD firmware version is incompatible with [chars]	This FRU requires a newer CPLD firmware to function properly in this chassis	ios-chassis-mgr	Upgrade the CPLD firmware on this FRU using the upgrade hw-programmable CPLD file <pkg_file> slot <fru_slot> command. Please see http://www.cisco.com/en/US/docs/routers/asr1000/cpld/hw_fp_upgrade.html for more details.
CMRP-2-FRU_FPGA_INCOMPATIBLE	2-Critical	[chars] in slot [chars] has been held in reset as its FPGA firmware version is incompatible with [chars]	This FRU requires a newer FPGA firmware to function properly in this chassis	ios-chassis-mgr	Upgrade the FPGA firmware on this FRU using the upgrade hw-programmable FPGA file <pkg_file> slot <fru_slot> command.
CMRP-2-FRU_HWPRG_UPG_FAILED	2-Critical	Failed to [chars] [chars] hardware programmable on [chars] in [chars].	Upgrade hw-programmable failed to upgrade the CPLD/FPGA firmware on the given FRU	ios-chassis-mgr	Reload the card and retry to program the hw-programmable. If the card fails to come up please contact TAC
CMRP-2-FRU_HWPRG_UPG_PSOC_PREPARE	2-Critical	Hardware programmable PSOCs on [chars] in slot [chars] were set in the golden mode. Please power-cycle or OIR the card to finish the upgrading	The hw-programmable PSOCs were set in the golden mode for FPD	ios-chassis-mgr	No action is required. This is informational message

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-2-FRU_HWPRG_UPG_PSOC_START	2-Critical	Hardware programmable PSOCs on [chars] in slot [chars] are upgrading, please don't reload or power-cycle this card. It will take about 10 mins to finish.	The hw programmable PSOC is upgrading	ios-chassis-mgr	No action is required. This is informational message
CMRP-2-FRU_HWPRG_UPG_PSOC_SUCCESS	2-Critical	Hardware programmable PSOCs on [chars] in slot [chars] were successfully programmed. Please power-cycle or OIR the card to make them work	The hw programmable PSOC was upgraded succesfully	ios-chassis-mgr	No action is required. This is informational message
CMRP-2-QUAD_SUP_DISABLE_SUPERVISOR	2-Critical	Exceeded the maximum failure attempts to enable Quad-Sup SVL. Forcing the supervisor in Switch [dec] slot [dec] into reset state. Keeping the supervisor in this state may cause system instability. Please pull out the supervisor and follow the quad sup migration procedure.	ICS is booted with quad sup incompatible image	ios-chassis-mgr	Boot the supervisor in quad sup compatible image

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMRP-2-QUAD_SUP_INCOMPATIBLE_SUPERVISOR_PWR_OFF	2-Critical	Exceeded the maximum failure attempts to enable Quad-Sup SVL. Forcing the supervisor in Switch [dec] slot [dec] into power off state. Keeping the supervisor in this state may cause system instability. Please pull out the supervisor, use 'hw-module switch <switch-num> subslot <slot> oir power-cycle' to power it on back and follow the quad sup migration procedure.	ICS is booted with quad sup incompatible image	ios-chassis-mgr	Boot the supervisor in quad sup compatible image
CMRP-2-QUAD_SUP_SW_MISMATCH	2-Critical	The Peer supervisor in Switch [dec] Slot [dec] is not reachable, one of the reason could be, Supervisor booting with quad-sup incompatible image. Continuing in this state could lead to undesirable behaviour. To recover from this state, boot the supervisor in Quad-SUP compatible image by following the migration procedure.(Attempt : [dec] of 5)	ICS is booted with quad sup incompatible image	ios-chassis-mgr	Boot the supervisor in quad sup compatible image or contact TAC

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-2-QUAD_SUP_UPLINK_SVL_SUPERVISOR_PWR_OFF	2-Critical	Supervisor in Switch [dec] Slot [dec] is booted when stackwise-virtual configured over supervisor ports which is unsupported. Keeping the supervisor in this state may cause system instability. Forcing the supervisor into power off state. Please pull out the supervisor, use 'hw-module switch <switch-num> subslot <slot> oir power-cycle' to power it on back and follow the quad sup migration procedure.	ICS is booted with quad sup with stackwise-virtual over supervisor ports	iosd-chassis-mgr	Boot the supervisor with stackwise-virtual configured over linecard ports
CMRP-2-RP_CPLD_INCOMPATIBLE	2-Critical	All other cards in the system have been held in reset as the Active RP [chars] in slot [chars] has CPLD firmware version that is incompatible with [chars]	Active RP requires a newer CPLD firmware to function properly in this chassis	iosd-chassis-mgr	Upgrade the CPLD firmware on this FRU using the upgrade hw-programmable CPLD file <pkg_file> slot <fru_slot> command. Please see http://www.cisco.com/en/US/docs/routers/asr1000/cpld/hw_fp_upgrade.html for more details.
CMRP-2-RP_CPLD_INCOMPATIBLE_OTHER	2-Critical	[chars] in slot [chars] has been held in reset because [chars]	Active RP requires a newer CPLD firmware to function properly in this chassis.	iosd-chassis-mgr	Upgrade the CPLD firmware on this FRU using the upgrade hw-programmable CPLD file <pkg_file> slot <fru_slot> command. Please see http://www.cisco.com/en/US/docs/routers/asr1000/cpld/hw_fp_upgrade.html for more details.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP-3-BITS_INITIALIZATION	3-Error	The RP BITS E1/T1 interface has failed initialization because [chars]	The RP BITS E1/T1 interface has failed to initialize. This could be due to a hardware defect, a software driver defect or improper configuration.	ios-chassis-mgr	Note the time of the error message and examine the logs for BITS 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
CMRP-3-CHASFS_OBJECT_DESTROY	3-Error	Failed to destroy chassis filesystem object [chars] because [chars]	A chassis filesystem object that should have been destroyed was not destroyed.	ios-chassis-mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-CHASFS_PROPERTY_DESTROY	3-Error	Failed to destroy chassis filesystem proprty [chars]/[chars] because [chars]	A chassis filesystem property that should have been destroyed was not destroyed.	ios-chassis-mgr	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.
CMRP-3-CHASSIS_FRU_FAULT_IGNORED	3-Error	CMAN_IGNORE_FRU_FAULTS is set. [chars]: [chars]	Debug variable will prevent a FRU from being restarted due to some faults.	ios-chassis-mgr	No action is necessary.
CMRP-3-CHASSIS_FRU_FAULT_IGNORED_ISSET	3-Error	CMAN_IGNORE_FRU_FAULTS is set. Some FRU faults will be ignored and FRU may not restart due to a fault	Debug variable will prevent a FRU from being restarted due to some faults.	ios-chassis-mgr	No action is necessary.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP-3-CHASSIS_MONITOR_FRU_BOOT_RETRIES_EXCEEDED	3-Error	[chars] has been held in reset because it has failed to successfully boot in [dec] tries	The FRU has failed to successfully boot in the maximum allowable attempts and is held in reset.	ios-chassis-mgr	Remove the FRU from the chassis if the FRU continously fails to boot.
CMRP-3-CHASSIS_MONITOR_FRU_BOOT_STATUS	3-Error	Reloading [chars] because the FRU boot status is unknown	The time at which the FRU started booing is not available. This time is used to check the boot status of the FRU.	ios-chassis-mgr	Remove the FRU from the chassis if the FRU is continously reloaded.
CMRP-3-CHASSIS_MONITOR_ONLINE_TIME_EXCEEDED	3-Error	Reloading [chars] because it has failed to come online	A FRU has failed to come online within the maximum boot time.	ios-chassis-mgr	Remove the FRU from the chassis if the FRU is continously reloaded.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-CHASSIS_MONITOR_ONLINE_TIME_IGNORED	3-Error	[chars] exceeded online time but will not be reset because fault ignore is configured	The FRU failed to come online within the maximum online time. This message applies to all FRUs. A reload will not be performed because fault ignore is configured.	ios-chassis	No action is necessary.
CMRP-3-CHASSIS_MONITOR_READY_TIME_EXCEEDED	3-Error	Reloading [chars] because it has failed to become ready for packet processing	The FRU failed to become ready within the maximum ready time. This message applies to FP FRUs. A switchover will be performed if another FP is available.	ios-chassis	Remove the FRU from the chassis if the FRU is continously reloaded.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-CHASSIS_MONITOR_READY_TIME_IGNORED	3-Error	[chars] exceeded ready time but will not be reset because fault ignore is configured	The FRU failed to become ready within the maximum ready time. This message applies to FP FRUs. A switchover and/or reload will not be performed because fault ignore is configured.	ios-chassis-mgr	No action is necessary.
CMRP-3-DDR_SINGLE_BIT_ERROR	3-Error	Single-bit DRAM ECC error: mme: [dec], sbe: [dec], address: 0x%08X, pid: [dec], name: [chars]	The RP DRAM has single-bit ECC errors.	ios-chassis-mgr	In most cases, the system self-corrects these single-bit ECC errors and no user action is necessary. If the problem persists, gather the console output with the error message along with the show tech-support command output and provide the gathered information to a Cisco technical support representative.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-DUAL_IOS_STANDBY_BAY	3-Error	Standby bay cannot be launched due to failure in bringing down existing processes (Attempts: [dec])	During standby bay shutdown, some related processes still remain running for an unexpectedly prolonged period of time. Chassis-mgr has timed-out waiting for all related processes to shutdown. As a result, it is unable to notify Process-mgr to restart the bay	ios-chassis-mgr	Examine the logs for standby bay's Forwarding-manager (fman), Interface-manager (iman), Pluggable-Service-Daemon (psd) and IOS. Ascertain which of these processes is taking too long to shutdown and note the reason. Take corrective action based on the error noted in the log
CMRP-3-EXT_ALARM_INTERRUPT	3-Error	Alarm [chars]:external alarm contact [dec]	There is an external alarm on the line.	ios-chassis-mgr	If alarm is asserted, then clear at the source.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP-3-FAN_FAILURE_SYS_SHUTDOWN	3-Error	WARNING: More than one Fan Failure detected and shutdown SYS state. System shutdown now TRUE:%x.	More than one fan failures are identified this causing overheating the system and will be shut down in order to protect the components.	iosd chassismgr	LOG_STD_RECUR_ACTION
CMRP-3-FAN_INCOMPATIBLE	3-Error	The combination of Power Supply and Fan Tray is incompatible	The combination of Fan tray and one of the power supply slots is not supported. This could cause unpredictable system behavior.	iosd chassismgr	This error indicates that the combination of one of the power supplies in P0 or P1 is not supported with the Fan Tray. In order to fix this issue, please review the installation guide, replace the fan tray or the power supply based on the requirement. 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-FAN_INITIALIZATION	3-Error	The RP has failed to initialize Fan [dec] module controller because [chars]	The RP failed to initialize the Fan. This could be due to a software defect.	chassis mgr	Note the time of the error message and examine the logs. 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.
CMRP-3-FAN_REMOVE_IM_SHUT	3-Error	The Interface Modules (IM's) may shutdown in [dec] minutes [dec] seconds.	Fan tray has been removed and the router will shutdown to protect itself from overheating in the amount of time stated in the error message.	chassis mgr	Reinsert a fan tray into the fan tray slot as soon as possible.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMRP-3-FAN_REMOVE_RSP2_SHUT	3-Error	The system will shut down when CYLON temp reaches 105C	Fan tray has been removed and the router will shutdown when cylon temperature reaches critical temperature i.e. 105C to protect itself from overheating in the amount of time stated in the error message.	ASR903-chassis	Reinsert a fan tray into the fan tray slot as soon as possible.
CMRP-3-FAN_REMOVE_RSP3_SHUT	3-Error	System received fan tray removal notification, Reinsert or service the faulty fan tray to avoid system shutdown due to high temperature. System will shutdown when the ARAD temp reaches Critical temperature i.e 105C. Based on current ARAD temperature [dec]C approximate time of shutdown is [dec] minutes [dec] seconds.	Fan tray has been removed and the router will shutdown when the ARAD temp reaches Critical temperature i.e 105C to protect itself from overheating.	ASR903-system	Reinsert a fan tray into the fan tray slot as soon as possible.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMRP-3-FAN_REMOVE_SHUT	3-Error	The system will shut down in [dec] minutes [dec] seconds	Fan tray has been removed and the router will shutdown to protect itself from overheating in the amount of time stated in the error message.	cmrp-chassis-mgr	Reinsert a fan tray into the fan tray slot as soon as possible.
CMRP-3-FAN_REMOVE_SYS_SHUTDOWN_PENDING	3-Error	System shutdown will occur in [dec] minutes.	The FRU is overheating and will be shut down in order to protect the components.	cmrp-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP-3-FP_DOWNREV	3-Error	[chars] has been held in reset because it is down-rev to the previous FP (0x%x -> 0x%x) in the chassis. Reboot the router to bring it up.	The FP inserted is a lower version than the previous Active FP in the router. Downrev of FP is not supported.	cmrp-chassis-mgr	Reboot the router.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-FP_LESSTHAN	3-Error	[chars] has been held in reset because it is down-rev to the active and cannot act as a standby.	The part number read from the FP IDPROM is not compatible with part number of the active FP; therefore, it may not act as a standby.	iosd-chassismgr	Remove the FP from the chassis.
CMRP-3-FP_UNSUPP_UPREV	3-Error	[chars] has been held in reset because of an upsupported upgrade of FP (0x%x -> 0x%x) in the chassis. Reboot the router to bring it up.	The FP inserted is a higher version than the previous Active FP in the router but this upgrade of FP is not supported.	iosd-chassismgr	Reboot the router.
CMRP-3-FRU_HWPRG_BAD_DEVICE	3-Error	Invalid HW programming device for [chars] in slot [chars].	The device is not supported in hardware programming	iosd-chassismgr	No action is required. This is an informational message
CMRP-3-FRU_HWPRG_LOAD_KMODULE_FAIL	3-Error	Cannot load a kernel module on [chars] in slot [chars].	Cannot load a Kernel module when upgrade CPLD or FPGA.	iosd-chassismgr	Reload the card and retry to program the hw-programmable. If you get the same error, please contact TAC

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-FRU_HWPRG_NO_FILE_ENTRY	3-Error	Cannot find file or directory on [chars] in slot [chars].	Cannot find a file or a directory when upgrade CPLD or FPGA.	ios-chassis-mgr	No action is required. This is an informational message
CMRP-3-FRU_HWPRG_RESTART_ERROR	3-Error	Error [chars] when Chassis Manager restarts [chars] in slot [chars].	Restart procedure has an error after upgrade.	ios-chassis-mgr	Try hw-module command to reload the FRU.
CMRP-3-FRU_HWPRG_UPG_PS_FAILED	3-Error	Power-Supply Module MCU [chars] in slot [chars] program failed	The hw-programmable power-supply upgrade failed	ios-chassis-mgr	Please check Power-Supply model and PKG file.
CMRP-3-FRU_HWPRG_UPG_SUCCESS	3-Error	Hardware programmable [chars] on [chars] in slot [chars] was successfully programmed. The card will now be power-cycled or reset.	The hw-programmable CPLD/FPGA was upgraded succesfully	ios-chassis-mgr	No action is required. This is informational message
CMRP-3-FRU_HWPRG_UPG_UNSUPP	3-Error	Upgrade of hardware programmable [chars] on [chars] in slot [chars] is not supported. Card will now be powered down.	upgrade of hw-programmable CPLD/FPGA not supported.	ios-chassis-mgr	No action is required. This is informational message
CMRP-3-FRU_INCOMPATIBLE	3-Error	[chars] has been held in reset: [chars] is incompatible with [chars]	The part number read from the FRU IDPROM is invalid for this chassis type.	ios-chassis-mgr	Remove the FRU from the chassis.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-FRU_INVPARTNUM	3-Error	[chars] has been held in reset because the part number %08X is invalid.	The FRU IDPROM contains an invalid part number.	chassis mgr	The FRU IDPROM should be repaired or the board replaced.
CMRP-3-FRU_NOPARTNUM	3-Error	Cannot get part number from IDPROM for [chars]: [chars].	The FRU IDPROM cannot be read or does not contain a valid part number field.	chassis mgr	The FRU IDPROM should be repaired.
CMRP-3-HWLIB_INITIALIZATION	3-Error	The hardware library has failed to initialize because [chars]	This could be due to a hardware defect, software driver defect or improper internal configuration.	chassis mgr	Note the time of the error message and examine the logs for CPLD 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.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMRP-3-HWMOD_FAIL	3-Error	hw-module [chars] command for slot [chars] failed ([chars])	The last hw-module command that was entered failed to complete	ios-chassis-mgr	Retry the command. If the retry of the command fails, reload the router. If reloading the router fails to resolve the problem, note the time of the error message and examine the Chassis Manager logs. 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.
CMRP-3-HWPRG_UPG_UNSUPP_SLOT	3-Error	upgrade of hardware programmables on [chars] is not supported while in slot [chars]. Card will now be powered down.	upgrade of hw-programmable CPLD/FPGA not supported in the given slot. Move the card to a different slot and perform the upgrade	ios-chassis-mgr	Move the card to a different slot and perform the upgrade

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP-3-I2C_READ	3-Error	An I2C read has failed because [chars]	An I2C read has failed. This could be due to a hardware or software defect.	chassis mgr	Note the time of the error message and examine the logs for I2C 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.
CMRP-3-I2C_WRITE	3-Error	An I2C write has failed because [chars]	An I2C write has failed. This could be due to a hardware or software defect.	chassis mgr	Note the time of the error message and examine the logs for I2C 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-IDPROM_ACCESS	3-Error	Failed to access or process IDPROM '[chars]': [chars]	Failed access or process an IDPROM. This could be due to a hardware defect, software defect or incorrect IDPROM content.	iosd-chassismgr	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.
CMRP-3-IDPROM_SENSOR	3-Error	One or more sensor fields from the idprom failed to parse properly because [chars].	One or more sensor fields from the IDPROM failed to parse properly. This problem is often the result of a checksum failure in the IDPROM.	iosd-chassismgr	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.
CMRP-3-INCOMPATIBLE_FRU	3-Error	[chars] in slot [chars] is not compatible with [chars] and so it is disabled	The Product ID read from the FRU IDPROM is invalid for this hardware configuration.	iosd-chassismgr	Remove the FRU from the chassis. Review the Hardware and Software Compatibility Matrix in IOS XE release notes to determine currently supported configurations.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-INCOMPATIBLE_FRU_SDWAN	3-Error	[chars] in slot [chars] is not supported in controller mode	Product ID read from FRU IDPROM is not supported in sdwan controller mode.	ios-chassis-mgr	Remove the FRU from the chassis
CMRP-3-INCOMPATIBLE_STANDBY_SUPERVISOR	3-Error	Standby supervisor is not compatible with the Active supervisor. Standby Supervisor will be disabled	Supervisor found in Standby slot may not be fully compatible with the active supervisor and may cause issues.	ios-chassis-mgr	Use supervisors with the same specifications to enable High Availablitly features.
CMRP-3-INTERNAL_HW_ERROR	3-Error	An nternal error condition was detected and resolved.	An internal error condition was detected, and affected part of hardware was reset. If this error condition reoccurs, the hardware may need to be replaced.	ios-chassis-mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMRP-3-INVENTORY_INITIALIZATION	3-Error	[chars] inventory file could not be read. FRU may need a reload to initialize properly, [chars]	The FRU inventory file could not be read. The file can possibly be corrupt. The FRU will possibly not initialize properly. The FRU should reset automatically. If it does not, it should be reloaded manually. If the error persists, the FRU will need to be replaced.	chassismgr	Wait a few minutes. If FRU does not reset automatically, it should be manually reloaded. If error persists, the FRU needs to be replaced.
CMRP-3-LICENSE_TIMEOUT	3-Error	Throughput license request timed out. Throughput level set to default	Throughput license was never received from lman	chassismgr	Examine logs for error messages

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP-3-OOD_OPR	3-Error	An OOD operation has failed because [chars]	An OOD opearion has failed. This could be due to a hardware or software defect.	ios-chassis-mgr	Note the time of the error message and examine the logs for OOD 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.
CMRP-3-OPR_PENDING	3-Error	The slot [dec] is has pending operation, please try later.	The previous operation on this board has not completed	ios-chassis-mgr	Try with the same command later
CMRP-3-PEER_INVALID	3-Error	A peer table entry has invalid state.	A peer table entry has an invalid state. This could be due to a software defect or system resource exhaustion.	ios-chassis-mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMRP-3-PEM_REMOVE_SHUT	3-Error	The system will shut down in [dec] minutes	A power supply has been removed and the router will shutdown to protect itself from overheating in the amount of time stated in the error message.	chassis mgr	Reinsert a power supply into the power supply slot as soon as possible. The second power supply is required because the fans in the power supply are essential in monitoring router temperature.
CMRP-3-PFU_FAILURE	3-Error	Failed to handle power supply failure for [chars] in slot [dec], [chars]	A power supply has failed and the system is unable to properly handle the failure.	chassis mgr	Force an RP switchover if the system is configured with two RPs. If a switchover does not correct the problem or cannot be performed, reloading the router should resolve the issue.
CMRP-3-PFU_FAN	3-Error	Failed to handle fan failure for [chars] in slot [dec], [chars]	One or more fans have failed and the system is unable to properly handle the fan failure.	chassis mgr	Force an RP switchover if the system is configured with two RPs. If a switchover does not correct the problem or cannot be performed, reloading the router should resolve the issue.
CMRP-3-PFU_INCOMPATIBLE	3-Error	PFU Incompatible: [chars]	Error message for any PFU compatibility errors.	chassis mgr	Remove incompatible PSUs.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-PFU_INITIALIZATION	3-Error	The RP has failed to initialize a Power Supply/Fan module controller because [chars]	The RP failed to initialize a Power Supply or Fan module controller. This could be due to a hardware defect or C2W access failure.	ios-chassis	Note the time of the error message and examine the logs for C2W 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.
CMRP-3-PFU_MISSING	3-Error	The platform does not detect a power supply in slot [dec]	There is no power supply in one of the power supply slots.	ios-chassis	Insert a power supply into the empty slot. The router requires two power supplies because the fans in the power supply are needed to cool the router.
CMRP-3-PFU_OIR	3-Error	Failed to handle a [chars] oir event for PEM in slot [dec], [chars]	A power supply was inserted or removed into or from a router and the software did not properly handle the event.	ios-chassis	Force an RP switchover if the system is configured with two RPs. If a switchover does not correct the problem or cannot be performed, reloading the router should resolve the issue.
CMRP-3-POWERBUDGET	3-Error	not enough power budget left for : [chars]:[dec]	The system do not have enough power budget for the new card.	platform-infra	the message will be displayed when not enough power budget left for the new card inserted.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-PSU_INCOMPATIBLE	3-Error	The combination of Power Supply in P0: [chars] and P1: [chars] is not supported in power [chars] mode	An incompatible power supplies combination has been identified in P0 and P1 power supply slots. This could cause unpredictable behavior in power management in the router.	chassis mgr	This error indicates that the combination of the two power supplies in P0 and P1 is an unsupported combination. In order to fix this issue, please review the installation guide, plug out one of the power supplies based on the requirement. 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.
CMRP-3-PWR_FAULT	3-Error	Shutting down [chars] because power fault on primary is [chars] and secondary is [chars]	The FRU has been shutdown as a result of a power issue.	chassis mgr	Check to ensure the router is receiving power. Otherwise, note the time of the error message and examine the logs for power-related 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.
CMRP-3-RP_MASTERSHIP_SET	3-Error	Failed to set RP mastership [chars] because [chars]	The router failed to establish RP mastership.	chassis mgr	Reload the router.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-RP_MISMATCH	3-Error	[chars] has been held in reset because the part number differs from that of the active RP	The part number read from the FRU IDPROM is not compatible with part number of the active RP; therefore, it may not act as a standby.	ios-chassis-mgr	Remove the FRU from the chassis.
CMRP-3-RP_RESET	3-Error	RP is resetting : [chars]	This RP is resetting due to the reason specified.	ios-chassis-mgr	No action is necessary.
CMRP-3-RP_SB_RELOAD	3-Error	Reload of Standby RP failed: [chars]	A request to reload the standby RP failed.	ios-chassis-mgr	Manually reload the standby RP. If that fails, configure SSO or RPR and then attempt the reload. If the problem persists, note the time of the error message and examine the Chassis Manager logs. 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, show redundancy state, and the output of show tech-support and provide the gathered information to a Cisco technical support representative

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-RP_SWITCH_SB_NOT_READY	3-Error	RP switchover: [chars]	An RP switchover occurred when the standby RP was not ready. The standby RP reset.	chassis mgr	No user action is necessary. Allow the standby RP to reset.
CMRP-3-SENSOR_INITIALIZATION	3-Error	Failed to initialize sensor monitoring because [chars].	Sensor monitoring failed to initialize.	chassis mgr	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.
CMRP-3-SENSOR_TYPE	3-Error	The sensor type is [dec] is invalid.	A sensor type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.	chassis mgr	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-SERDES_ESI_INIT_FAIL	3-Error	Serial Bridge ESI link [chars] between [chars] and [chars] failed to config	A Serial Bridge ESI link did not configure. This could be due to a software error.	ios-chassis-mgr	Note the time of the error message and examine the logs for Serial Bridge 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.
CMRP-3-SERDES_ESI_LOCK_FAIL	3-Error	Serial Bridge ESI link [chars] between [chars] and [chars] failed to lock	A Serial Bridge ESI link did not lock. This could be due to a hardware defect or a software configuration error.	ios-chassis-mgr	Note the time of the error message and examine the logs for Serial Bridge 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.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMRP-3-SERDES_NSTEP_SYNC_ERROR	3-Error	Link down in Slot=[dec], Link-Type=[dec], Link-Status=0x%x, Link=[dec]	One or more Backplane Link didn't come up. This could be due to a hardware defect.	asr903-system	Note the time of the error message and examine the logs for repeated SYNC errors after repeated retries. 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.
CMRP-3-SIP_MDR_FAIL	3-Error	The SIP[dec] failed Minimal Disruptive Restart because [chars]	The SIP failed Minimal Disruptive Restart. Minimal Disruptive Restart process is aborted and an attempt will be made to recover the SIP by resetting the SIP hardware.	asr903-system	Examine the system logs for errors.
CMRP-3-SOFT_ERROR_RELOAD	3-Error	Uncorrected Soft error on [chars], reloading RP to recover	Uncorrected Soft error on critical module, reloading the RP to recover	asr903-system	If this reoccures frequently, contact asr903-system

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP-3-SOFT_ERROR_RELOAD_RECOMMENDED	3-Error	Uncorrected Soft error on [chars], reload is recommended to recover.	Uncorrected Soft error on critical module, reload is recommended to recover	asr903-system	If this reoccures frequently, contact asr903-system
CMRP-3-SOFT_ERROR_UPDATE	3-Error	Critical soft error on [chars]	Update for each soft error on different components	asr903-system	If this reoccures frequently, contact asr903-system
CMRP-3-SOFT_ERROR_WAIT	3-Error	Uncorrected Soft error on [chars], waiting for standby to switchover	Uncorrected Soft error on critical module, waiting for standby to reach SSO to switchover	asr903-system	If this reoccures frequently, contact asr903-system
CMRP-3-SYS_REBOOT	3-Error	System going down, reason: [chars]	System reboot is called from software. Please check the reason and earlier syslog, traces	issu-reason-mgr	Check the reason string and take appropriate action

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-THROUGHPUT_LICENSE_APPLY_FAILED	3-Error	Throughput license look-up failed due to '[chars]'	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 (lmgrd) or it encountered an internal error.	license mgr	No user action is necessary. However, it is possible that a re-boot of the box may correct this behavior.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-UDI_AUTH	3-Error	Quack Unique Device Identifier authentication failed	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 (lmgrd.log)	license	User immediately needs to contact Cisco support. This device appears to be tampered with or is a counterfeit device or had a system failure.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
CMRP-3-UNSUPPORTED_FRU	3-Error	[chars] in slot [chars] is not supported with [chars] and so it is disabled	The Product ID read from the FRU IDPROM is not supported in this router. This is due to either Hardware or Software compatibility limitation indicated in the console log	ios-chassis	Remove the FRU from the chassis. Review the Hardware and Software Compatibility Matrix in IOS XE release notes to determine currently supported configurations.
CMRP-3-UNSUPPORTED_PEM	3-Error	[chars] in slot [chars] is not supported with [chars] and it needs to be replaced immediately	The Product ID read from the PEM IDPROM is not supported in this hardware configuration. It will be allowed to continue but immediate replacement is required	ios-chassis	Remove the PEM from the chassis and replace it with a supported PEM. Review the Hardware and Software Compatibility Matrix in IOS XE release notes to determine currently supported configurations.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-3-WANPLL_SETUP	3-Error	Failed to setup the [chars] of the RP WAN PLL because [chars]	Failed to setup the RP WAN PLL appropriately. This could be due to a hardware defect of the device.	ios-chassis-mgr	Note the time of the error message and examine the logs for WAN PLL related hardware errors. Check if the issue is transient or repeatable. If the problem is not recoverable collect the output of the error message and the chassis-manager and IOS logs. Provide the gathered information to a Cisco technical support representative.
CMRP-4-ACTIVE_SLOTBAY_BIAS	4-Warning	The configured active slot/bay bias [dec] is invalid.	The configured active slot/bay bias is not 0 or 1. The default value of 0 is used.	ios-chassis-mgr	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.
CMRP-4-CPP_WARN	4-Warning	Active cable linecard in slot [dec] has been physically removed.	Plug out one LC with heavy traffic, it may cause cpp queue pending drain and modem offline.	cpp-platform-infra	No action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-4-FAN_TRAY_OVER_CURRENT	4-Warning	A Fan Tray over-current has been detected. System will be reset.	Internal error (Fan Tray over-current) condition was detected, and so the system was reset. If this error condition reoccurs, the hardware may need to be replaced.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP-4-INTRUSION_ALERT	4-Warning	The system cover has been [chars] !!	These tamper alert messages indicate the events of intrusion.	ios-chassis-mgr	LOG_STD_NO_ACTION
CMRP-4-MOTHERBOARD_OVER_CURRENT	4-Warning	Motherboard over-current has been detected. System will be reset.	Internal error (Motherboard over-current) condition was detected, and so the system was reset. If this error condition reoccurs, the hardware may need to be replaced.	ios-chassis-mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-4-NGWICS_OVER_CURRENT	4-Warning	A NIM over-current condition has been detected. System will be reset.	Internal error (NIM over-current) condition was detected, and so the system was reset. If this error condition reoccurs, the hardware may need to be replaced.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP-4-SERDES_ESI_CARD_RESEAT	4-Warning	Serial Bridge ESI link [chars] between [chars] and [chars] isn't locked; Card should be reseated	A Serial Bridge ESI link did not lock during first 10 reties due to improper seating.	ios-chassis-mgr	Note the time of the error message and examine the logs for Serial Bridge 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.
CMRP-4-SSD_BTN_PRESS_WARN	4-Warning	The SSD Storage PID:[chars] SN:[chars] on the Supervisor SN:[chars] in slot [dec] has been ejected and not available on this Supervisor anymore.	These tamper alert message indicate the event of ssd button press.	ios-chassis-mgr	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-4-SYSTEM_OVER_CURRENT	4-Warning	Overall system over-current has been detected. System will be reset.	Internal error (system over-current) condition was detected, and so the system was reset. If this error condition reoccurs, the hardware may need to be replaced.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP-4-TAMPER_DETECTION_AT_LEAST_EVENT_MSG	4-Warning	System cover was opened >= [dec] times and closed >= [dec] times during power [chars] since last known event index [dec] at 20%02x/%02x/%02x %02x:%02x:%02x	These tamper warnings indicate the events of intrusion. The least number of opened/closed events is counted.	ios-chassis-mgr	LOG_STD_NO_ACTION
CMRP-4-TAMPER_DETECTION_EVENT_MSG	4-Warning	System cover was opened [dec] times and closed [dec] times during power [chars] since last known event index [dec] at 20%02x/%02x/%02x %02x:%02x:%02x	These tamper warnings indicate the events of intrusion.	ios-chassis-mgr	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
CMRP-4-TAMPER_DETECTION_NO_LAST_KNOWN_EVENT	4-Warning	System cover was opened [dec] times and closed [dec] times during power [chars]. There is no last known/marked event.	These tamper warnings indicate the events of intrusion. There is no last known/marked event.	iosd-chassis-mgr	LOG_STD_NO_ACTION
CMRP-5-CHASSIS_MONITOR_BOOT_TIME_PRINT	5-Notice	Card [chars] took [dec] secs to boot	This is an informational message about boot time of all cards.	iosd-chassis-mgr	Action is not necessary.
CMRP-5-FRU_CPLD_MISMATCH	5-Notice	CPLD ver [chars] in slot [chars] does not match Active CPLD ver [chars]	This FRU requires a matching CPLD firmware to function properly in this chassis	iosd-chassis-mgr	Upgrade the CPLD firmware to have matching versions.
CMRP-5-HA_NOTICE	5-Notice	HA message: [chars]	HA Error Occured. This could be due to a software defect, please follow action	iosd-chassis-mgr	Note the time of the error message and examine the logs for HA and hardware errors. Try re-inserting Standby SUP properly and see if problem gets corrected, If the problem is not correctable or the logs are not helpful, collect the 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-5-NEBS_ACCESS_PID_FAIL	5-Notice	Failed to acess NGIO PID list for [chars] on slot/bay [dec]/[dec] in NEBS mode.	Unable to acess NGIO PID list for slot %d bay %d in NEBS mode	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP-5-PEM_OUTPUT_DETECT	5-Notice	Output of PEM [dec] is [dec] V	Value of Output of PEM.	ios-platform-infra	If PEM Output is 0, check Power Cable.
CMRP-5-PRERELEASE_HARDWARE	5-Notice	[chars] is pre-release hardware	The board does have an official production part number.	ios-chassis-mgr	Immediately contact Cisco for a replacement board.
CMRP-5-SUDI_KEY_READ_INIT_FAILED	5-Notice	SUDI(SHA2) key read failed during Initializtion.	SHA key read failed during Initializtion.	ios-chassis-mgr	Check SUDI Trustpoint creation. Please collect output of show tech-support and provide the gathered information to a Cisco technical support representative.

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
CMRP-5-UNSUPPORTED_MODULE	5-Notice	Unsupported Module inserted. The module [chars] on the slot [dec] may not be a genuine Cisco product. Cisco warranties and support programs only apply to genuine Cisco products. If Cisco determines that your insertion of non-Cisco memory, WIC cards, AIM cards, Network Modules, SPA cards, GBICs or other modules into a Cisco product is the cause of a support issue, Cisco may deny support under your warranty or under a Cisco support program.	Hardware in the specified location could not be identified as a genuine Cisco product	cmrp	LOG_STD_RECUR_ACTION
CMRP-5-UNSUPPORTED_MODULE_IN_NEBS	5-Notice	The module [chars] on slot/subslot [dec]/[dec] is not supported in NEBS power mode.	Hardware in the specified location should be removed in NEBS mode	cmrp	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMRP-6-DUAL_IOS_REBOOT_REQUIRED	6-Information	Configuration must be saved and the chassis must be rebooted for IOS redundancy changes to take effect	Chassis manager received notification that IOS software redundancy has been configured. For these changes to take effect, the system must be restarted.	ios-chassis-mgr	Reload the chassis.
CMRP-6-DUAL_IOS_STARTING	6-Information	Software redundant IOS configured; starting standby in [dec] seconds.	Chassis manager received notification that IOS software redundancy has been configured. The standby IOS will be started in the time specified.	ios-chassis-mgr	No action is necessary.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMRP-6-DUAL_IOS_STOPPING	6-Information	Bringing down standby IOS	Chassis manager received notification to stop the standby IOS instance. This may be for a redundancy mode change. Depending on the reason, the standby may be subsequently restarted.	iosxe-chassis-mgr	No action is necessary.
CMRP-6-FORCE_RESET_OTHER_RP	6-Information	The other SUP RP [dec] is still holding the midplane lock to block the suppervisor failover, force reset it to release the midplane lock.	The Other Supervisor is force reset due to hold the midplane lock for a long time during supervisor failover	iosxe-chassis-mgr	No action is required. This is informational message
CMRP-6-FP_HA_SB_NOTREADY	6-Information	FP switchover: F[dec] [chars]	The standby ESP is not ready for a switchover.	iosxe-chassis-mgr	No user action is necessary.
CMRP-6-FP_HA_STATUS	6-Information	F[dec] redundancy state is [chars]	The ESP has transitioned into a new High Availability state.	iosxe-chassis-mgr	No user action is necessary. This is an informational message.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMRP-6-FP_SB_RELOAD_REQ	6-Information	Reloading Standby FP: [chars]	A reload of Standby FP has been requested.	ios-chassis-mgr	No action is necessary.
CMRP-6-FRU_FPGA_UPG_REQUIRED	6-Information	[chars] in slot [chars] has INCOMPATIBLE FPGA firmware version with [chars]. Upgrade the FPGA firmware	This FRU requires a newer FPGA firmware to function properly in this chassis	ios-chassis-mgr	Upgrade the FPGA firmware on this FRU using the upgrade hw-programmable FPGA file <pkg_file> slot <fru_slot> command.
CMRP-6-FRU_HWPRG_CPLD_POSTUPG_SUCCESS	6-Information	Hardware CPLD postupgrade on CLC[dec] was successfully programmed.The LC is reloading to make it take effect.	The hwprogrammable CPLD postupgrade was upgraded succesfully	ios-chassis-mgr	No action is required. This is informational message
CMRP-6-FRU_HWPRG_UPG_ADM1266_FM_START	6-Information	Hardware programmable ADM1266s on [chars] in slot [chars] are upgrading, please don't reload or power-cycle this card. It will take about 10 mins to finish.	The hwprogrammable ADM1266 Firmware is upgrading	ios-chassis-mgr	No action is required. This is informational message
CMRP-6-FRU_HWPRG_UPG_ADM1266_FM_SUCCESS	6-Information	Hardware programmable ADM1266s on [chars] in slot [chars] were successfully programmed. The card is reloading to make them work	The hwprogrammable ADM1266 fimware was upgraded succesfully	ios-chassis-mgr	No action is required. This is informational message

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMRP-6-FRU_HWPRG_UPG_PSOC_DONE	6-Information	Hardware programmable PSOCs on [chars] in slot [chars] were upgraded successfully	The hw-programmable PSOC was upgraded succesfully	ios-chassis-mgr	No action is required. This is informational message
CMRP-6-FRU_HWPRG_UPG_PS_SUCCESS	6-Information	Power-Supply Module MCUs in slot [chars] were successfully programmed.	The hw-programmable power-supply was upgraded succesfully	ios-chassis-mgr	No action is required. This is informational message
CMRP-6-FRU_HWPRG_UPG_START	6-Information	Hardware programmable [chars] on [chars] in slot [chars] is upgrading. please don't reload or power-cycle this card. It will take about 5 mins to finish.	The hw-programmable was upgrading	ios-chassis-mgr	No action is required. This is informational message
CMRP-6-HT_CLOSURE_MODE	6-Information	The HTPI driver failed to set it's closure mode properly	This is not a critical error, but it will result in possible traffic interruption during certain software failure cases or ISSU operations.	ios-chassis-mgr	Note the error message and contact a Cisco technical support representative.
CMRP-6-HT_STATUS	6-Information	R[dec] hypertransport configured for F[dec] active	The RP HyperTransport driver was properly configured for a newly active FP.	ios-chassis-mgr	No user action is necessary. This is as informational message indicating normal system operation.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-6-IGNORE_PFU_OIR	6-Information	Simulating FAN OIR due to FAN Speed profile change	FAN tray OIR is simulated throught software to select new FAN SPEED profile. this message is to let know the user that this is a simulated FAN oir and not physical FAN oir. User needs to ignore next occurrence messages/alarms associated with FAN tray removal/insertion actions. such as FAN tray missing, PEM/FAN removal/insertion and system shutdown will happen messages	asr903-system	ignore FAN tray or PEM/FM removal/insertion messages and system shutdown message

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-6-MGMT_SFP_INSERT	6-Information	transceiver module inserted in [chars]	The online insertion and removal (OIR) facility detected a newly inserted transceiver module for the interface specified in the error message.	ios-chassis-mgr	No action required.
CMRP-6-MGMT_SFP_REMOVED	6-Information	Transceiver module removed from [chars]	The online insertion and removal (OIR) facility detected the removal of a transceiver module from the interface specified in the error message.	ios-chassis-mgr	No action required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP-6-MODULE_INSERTED_CFG_MISMATCH	6-Information	The module inserted in Switch:[dec] Slot:[dec] doesn't support the configured Stackwise Virtual link/Dual Active Detection Link Speed. Line card is Power denied. Please replace the Line card with the configured SVL/DAD link speed or remove the config and reload the system	The Line Card and SVL/DAD CONFIG in the slot mismatch.	iosd-chassis-mgr	Change the config and reload the system or remove the Line card.
CMRP-6-REDI_FP_UNSUPPORTED_IN_INTER_CHASSIS_MODE	6-Information	[chars] redundant FP in slot [chars] is not supported in inter-chassis redundancy mode	Because the system is configured in box-to-box or inter-chassis redundancy mode, the intra chassis redundancy mode is not supported and redundant FP, if any, will be disabled.	iosd-chassis-mgr	No user action is necessary.

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
CMRP-6-REDT_RP_UNSUPORTED_IN_INTER_CHASSIS_MODE	6-Information	[chars] redundant RP in slot [chars] is not supported in inter-chassis redundancy mode. Please remove it for inter-chassis redundancy to work properly on system reload.	Because the system is configured in box-to-box or inter-chassis redundancy mode, the intra chassis redundancy mode is not supported and redundant RP, if any, will be disabled.	iosd chassis_mgr	No user action is necessary.
CMRP-6-RFROLE	6-Information	RP switchover, [chars]	On RP switchover chasfs rfrole property has been changed.	iosd chassis_mgr	No user action is necessary.
CMRP-6-RP_SB_RELOAD_REQ	6-Information	Reloading Standby RP: [chars]	A reload of Standby RP has been requested.	iosd chassis_mgr	No action is necessary.
CMRP-6-RP_SWITCH_SB_SYNC	6-Information	RP switchover: [chars]	The RP switch synchronization timer expired.	iosd chassis_mgr	No user action is necessary.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMRP-6-SINGLE_IOS_REBOOT_RECOMMENDED	6-Information	Configuration must be saved and the chassis should be rebooted for optimal single-IOS execution	Chassis manager received notification that IOS software redundancy has been unconfigured. For optimal runtime resource allocation, the system must be restarted.	iosd-chassis-mgr	Reload the chassis.
CMRP-6-STBY_HARDDISK_UNAVAIL	6-Information	stby-harddisk is offline	The stby-harddisk is not available.	iosd-chassis-mgr	No user action is necessary. This is an informational message.
CMRP-6-TEST_SPA_OIR_ONLINE_INSERT_DENIED	6-Information	SPA [dec]/[dec] oir insert is denied	test command executed disallowing the spa to be inserted.	iosd-chassis-mgr	Execute the test command allowing the insertion of the spa for normal operation
CMRP-6-TEST_SPA_OIR_ONLINE_OPS	6-Information	SPA [dec]/[dec] oir online status is set to [chars]	test command executed to either allow/deny the spa coming online.	iosd-chassis-mgr	If the card does not come online, execute the test command to allow the spa to come online.

Facility-Severity-Mnemonic	Severity-Meaning	Message	Message-Explanation	Component	Recommended-Action
CMRP-6-THROUGHPUT_LICENSE	6-Information	Throughput license [chars], throughput set to [chars]	Status indicating whether throughput license is found and the corresponding througput the CPP hardware is configured to provide.	ios-chassis-mgr	No user action is necessary. This is an informational message indicating throughput configured.
CMRP_ENVMON-3-PWR_FRU_HW_AUTO_SHUTDOWN	3-Error	WARNING: The card on slot [dec] hit abnormal voltage or current. it has been auto-shutdown by hardware for protection	The FRU hit abnormal voltage or current and has been auto-shutdown in order to protect the components.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_ENVMON-3-TEMP_FRU_HW_AUTO_SHUTDOWN	3-Error	WARNING: The card on slot [dec] is overheating. it has been auto-shutdown by hardware for protection	The FRU is overheating and has been auto-shutdown in order to protect the components.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_ENVMON-3-TEMP_FRU_SHUTDOWN_NOW	3-Error	WARNING: [chars] temperature sensor on [chars] is in a shutdown FRU state. FRU shutdown now.	The FRU is overheating and will be shut down in order to protect the components.	ios-chassis-mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP_ENVMON-3-TEMP_FRU_SHUTDOWN_PENDING	3-Error	WARNING: [chars] temperature sensor on [chars] is in a shutdown FRU state. FRU shutdown will occur in [dec] minutes.	The FRU is overheating and will be shut down in order to protect the components.	iosd chassis mgr	LOG_STD_RECUR_ACTION
CMRP_ENVMON-3-TEMP_PSU_SHUTDOWN_NOW	3-Error	WARNING: [chars] temperature sensor on [chars] is in a shutdown PSU state. PSU shutdown now.	The PSU is overheating and will be shut down in order to protect the components.	iosd chassis mgr	LOG_STD_RECUR_ACTION
CMRP_ENVMON-3-TEMP_SYS_SHUTDOWN_NOW	3-Error	WARNING: [chars] temperature sensor on [chars] is in a shutdown SYS state. System shutdown now.	The FRU is overheating and will be shut down in order to protect the components.	iosd chassis mgr	LOG_STD_RECUR_ACTION
CMRP_ENVMON-3-TEMP_SYS_SHUTDOWN_PENDING	3-Error	WARNING: [chars] temperature sensor on [chars] is in a shutdown SYS state. System shutdown will occur in [dec] minutes.	The FRU is overheating and will be shut down in order to protect the components.	iosd chassis mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP_ENVMON-3-TEMP_WARN_CRITICAL	3-Error	WARNING: [chars] temperature sensor on [chars] is in a critical state reading [dec]	The FRU is overheating and will be shut down in order to protect the components.	iosxe-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_ENVMON-3-TRANSCEIVER_TEMP_SYS_SHUTDOWN_NOW	3-Error	WARNING: transceiver temperature sensor is in a shutdown SYS state. System shutdown now %x.	The Transceiver is overheating and will be shut down in order to protect the components.	iosxe-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_ENVMON-6-TEMP_SYS_SHUTDOWN_DISABLED	6-Information	WARNING: System is in a thermal shutdown disabled state. System won't shut down now.	Thermal shutdown disable is configured to bypass system shutdown.	iosxe-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-1-FAN_POLICY_ALERT	1-Alert	SYSTEM FAN POLICY Alert : [chars]	System FAN policy check detected issues, no redundant fan tray or fan detected. System will shutdown if a fan or fan tray is not inserted back	iosxe-chassis-mgr	Reinsert the fan or the fan tray back in order to prevent the system from shutdown.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-1-PFU_FAN_FAILED	1-Alert	System detected fan tray removal or fan failure, reinsert or service the faulty fan tray to avoid system shutdown due to high temperature.	Fan tray has been removed or one of the fan failed and the router will shutdown when the temp reaches Critical temperature to protect itself from overheating.	chassis	Reinsert a fan tray into the fan tray slot as soon as possible.
CMRP_PFU-1-PFU_NO_FAN	1-Alert	System detected no fan or fan tray available, either not present or in failure state. Reinsert or service the faulty fan or fan tray to avoid system shutdown.	No working fan or fan tray detected in the system, could be removed or in failure state, switch will be shutdown when the temp reaches critical temperature to protect itself from overheating.	chassis	Reinsert working fan or fan tray as soon as possible.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-2-FAN_POLICY_CRITICAL	2-Critical	SYSTEM FAN POLICY Critical : [chars]	System FAN policy check detected issues, either Fan tray has been removed or fan failure has been detected. The system may overheat.	chassis	Re-insert the missing fan tray or technician should inspect the failed fans as soon as possible to prevent overheating.
CMRP_PFU-2-PSU_MIX_PWR_CAPACITY	2-Critical	Power supplies of mixed power capacity is not a supported configuration. This can lead to unstable behavior or system reload, please connect power supplies of the same power capacity to avoid any issues.	Power supplies connected in system have different power capacity. This is not supported from hardware as it can lead to unstable behavior or system may go for reload. Power capacity can be checked using CLI show power detail	chassis	Connect all the power supplies having same power capacity as soon as possible.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-2-PSU_VOLATGE_MIX	2-Critical	Mix of 110V and 220V is not supported configuration, PSU in slot [chars] is in 110V and PSU in slot [chars] is in 220V. This can cause system reload, Connect the same voltage input to avoid system reload immediately.	Some PSUs are connected to 110V and some are connected to 220V. This is not supported from hardware as it may cause system failure and system may go for reload. Input voltage can be checked using CLI show platform hardware chassis power-supply detail	chassis	Connect all the power supplies to same voltage input source as soon as possible.
CMRP_PFU-3-DCPOWERREDUNDANCY	3-Error	dc input [chars] failed for pem: [dec]	The DC input failed for pem module.	chassis	the message will be displayed when DC input failed.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-3-FANASSY_REMOVED	3-Error	Fan Assembly is removed. Please insert to avoid system from heating.	Fan Assembly has been removed from the system. It needs to be inserted back to prevent system from heating. If the system over heats, parts of the system will not function normally and system may shut itself down.	chassis mgr	Insert the fan assembly in the system to prevent system from over heating.
CMRP_PFU-3-PEM_STATUS	3-Error	WARNING: The power supply module on slot [dec] hits [chars],	The power supply module are not functioning properly.	chassis mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-3-PEM_VOLTAGENOTSUPPORTED	3-Error	WARNING: Input voltage of power supply module on PS[dec] is not supported. Please use the supported range of either [dec]-[dec] volts for [dec]W or [dec]-[dec] volts for [dec]W	The input voltage of the power supply module is out of range	chassis mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-3-PFU_FANS_DEAD	3-Error	The fans in the [chars] in slot [dec] have all failed.	The system is in danger of overheating because none of the fans in one of the PEMs are working properly.	iosd-chassismgr	LOG_STD_RECUR_ACTION
CMRP_PFU-3-PFU_FANS_DEAD_SHUTDOWN	3-Error	Shutting down system now because the fans in slot [dec] have all failed.	When the fans fail then system does not have sufficient cooling capacity. To prevent damage, the system will automatically shut down.	iosd-chassismgr	LOG_STD_RECUR_ACTION
CMRP_PFU-3-PFU_FAN_DEAD	3-Error	WARNING: Fan [dec] in the [chars] in slot [dec] has failed.	A fan is not functioning properly.	iosd-chassismgr	LOG_STD_RECUR_ACTION
CMRP_PFU-3-PFU_FAN_ERR	3-Error	WARNING: Fan [dec] in slot [dec] has the error: [chars], Please replace it with a new fan.	A fan is not functioning properly.	iosd-chassismgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-3-PFU_IDPROM_CORRUPT	3-Error	The PEM/FM idprom could be read, but is corrupt in slot P[dec] The system will run without environmental monitoring for this component	The idprom contains information required in order to properly operate the environmental monitoring subsystems. The idprom could not be read, therefore no monitoring will take place.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-3-PFU_IDPROM_READ_ERR	3-Error	Could not read the PEM/FM idprom in slot P[dec]. The system will run without environmental monitoring for this component	The idprom contains information required in order to properly operate the environmental monitoring subsystems. The idprom could not be read, therefore no monitoring will take place.	ios-chassis-mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-3-PFU_SHUTDOWN	3-Error	Shutting down system now because the PEM in slot [dec] was removed or not seated correctly.	When either a PEM or a FM are removed, the system lacks sufficient cooling capacity. To prevent damage, the system will automatically shut down unless it is replaced.	chassis mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-3-PFU_SLOT_VACANT	3-Error	The platform does not detect a power supply in slot [dec]	There is no power supply in one of the power supply slots.	chassis mgr	Insert a power supply into the empty slot.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-3-PWR_MGMT_ALARM	3-Error	WARNING: System does not have sufficient input power for minimum reliable operation requiring [dec] watts. The system needs [dec] watts of additional power.	System power does not meet minimum requirements. Insert additional power supplies or provide current power supplies with a greater input voltage source if applicable.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-3-PWR_MGMT_LC_SHUTDOWN	3-Error	WARNING: Linecard in slot [dec] with priority [dec] and a power requirement of [dec] watts has shutdown.	A LC was shutdown due to a power loss.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-3-PWR_MGMT_SINGLE_SUP_ERROR	3-Error	ERROR: Remote supervisor has been detected in slot [dec]. System is configured to SINGLE-SUP power mode. Remove remote supervisor IMMEDIATELY.	User inserted a second supervisor in a single-sup power mode.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-3-PWR_PROTECTION_ACTION	3-Error	Shutdown the card [chars] due to insufficient power budget.	The total power is not enough, shutdown FRUs for power protection.	ios-chassis-mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-3-PWR_PROTECTION_MODE	3-Error	WARNING: Detected low input voltage ([dec]V) on the power supply in slot P[dec], the power budget may not be enough, some cards may be shutdown due to the power budget reduction. Please check the power input.	Input voltage of power supply is too low.	chassis mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-3-PWR_REDUN_ALARM_STATE	3-Error	WARNING: An active power supply has failed and the system has entered alarm state. The system is operating without power redundancy and has [dec] watts of power remaining	An active power supplied failed while in redundant power mode.	chassis mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-3-SHUTDOWN_FAILURE	3-Error	The system attempted to shut itself down, but failed because [chars]	The system reached a condition where it should be shut down, but the shutdown call failed. The system should be manually rebooted.	chassis mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-3-TEMP_FRU_SHUTDOWN	3-Error	[chars] temperature sensor on [chars] is in a shutdown FRU state. FRU shutdown will occur in [dec] minutes.	The FRU is overheating and will be shut down in order to protect the components.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-3-TEMP_SYSTEM_SHUTDOWN	3-Error	[chars] temperature sensor is in a shutdown system state. System shutdown will occur in [dec] minutes.	The system is overheating and will be shut down in order to protect the components.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-4-PFU_FANTRAY_WARN	4-Warning	WARNING: Fantray in slot [chars] has the error: [chars].	A fantray is not functioning properly.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-4-PFU_FAN_ID_WARN	4-Warning	WARNING: [chars] of [chars] has an error: [chars]	A fan is not functioning properly.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-4-PFU_FAN_INSUFFICIENT	4-Warning	WARNING: Insufficient number of fan modules installed. There are only [dec] fan modules, expecting [dec]	Insufficient number of fan modules installed, should insert new fans as soon as possible to avoid system from over heating.	ios-chassis-mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-4-PFU_FAN_TRAY_WARN	4-Warning	WARNING: Fan tray in slot [dec] has the error: [chars].	A fan tray is not functioning properly.	chassis mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-4-PFU_FAN_WARN	4-Warning	WARNING: Fan [dec] in slot [dec] has the error: [chars].	A fan is not functioning properly.	chassis mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-4-PWR_MGMT_CAPACITY_MIXED	4-Warning	System contains power supplies of mixed power capacity. Redundancy operating mode Full protected is not supported with this configuration. System will run in Normal protected state.	HW does not support Full protected mode with mixed capacity power supplies. This is due to current sharing; specifically dealing with the case in which all active power supplies fail simultaneously. Full protected state is demoted to Normal protected state.	chassis mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-4-PWR_MGMT_WARN	4-Warning	WARNING: Insufficient number of power supplies ([dec]) are installed for power redundancy mode [chars]. The system needs [dec] watts additional power.	Insufficient number of power supplies are installed. Should insert new power supplies as soon as possible	cmrp-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-4-PWR_MGMT_WARNING	4-Warning	WARNING: Insufficient number of power supplies ([dec]) are installed for power redundancy mode [chars].	Insufficient number of power supplies are installed to operate in configured mode, more power supply should be installed	cmrp-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-5-DCPOWERINPUT	5-Notice	dc input [chars] recovered for pem: [dec]	The DC input recovered for pem module.	cmrp-chassis-mgr	the message will be displayed when DC input recovered.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-6-FANASSY_INSERTED	6-Information	Fan Assembly is inserted.	Fan Assembly that was previously removed has been inserted in the system. Preventing the system from over heating is important. So fan assembly should not be removed for extended period of time during normal operation.	chassis	No further action is necessary.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-6-PEM_INSERTED	6-Information	Power Supply in slot [dec] not operational.	A PEM seems to be inserted without the power cable connected. This message is a notice that the power supply is not operational, will not provide power to the system, and may not be completely detected by the software until the power cable is connected and the PEM is supplied with the power.	use chassis mgr	Insert the power supply cable in the PEM and provide power.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-6-PFU_BEACON_LED_ON_OFF	6-Information	[chars] [dec] beacon LED is TURNED [chars].	Power Supply or Fan-tray, Beacon LED turned ON/OFF. This is a notification message only.No action is required.	iosd-chassismgr	This is a notification message only. No action is required.
CMRP_PFU-6-PFU_FAN_DETECTED	6-Information	The required number of fan trays or fan modules are detected.	After previous no fan or insufficient fan modules alarm, the required minimum number of fan trays or fan modules have been detected.	iosd-chassismgr	No further action is required.
CMRP_PFU-6-PFU_FAN_RECOVERED	6-Information	Fan in slot [dec] has been recovered from error conditions, Now it's working normally.	Fans are just recovered from an error condition,	iosd-chassismgr	LOG_STD_RECUR_ACTION
CMRP_PFU-6-PFU_FAN_RECOVERED_I2C	6-Information	Successfully restored I2C communication to PSoC [dec] on fan module in slot [dec].	Fans are just recovered from an I2C communication	iosd-chassismgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-6-PFU_INSERTED	6-Information	[chars] inserted. System shutdown aborted.	When either a PEM or a FM are removed, the system lacks sufficient cooling capacity. To prevent damage, the system will automatically shut down unless it is replaced. This message serves as notice that the module has been replaced within the required time	cmrp-asr9k-chassis-mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-6-PSU_MIX_PWR_CAPACITY_RECOVERED	6-Information	All power supplies connected now are of same power capacity. System has recovered from mix power capacity.	Mix of power capacity power supplies were connected in system. This was not supported from hardware as it may have caused system failure. The system is now in a stable state with all power supplies having same power capacity	chassis	All connected power supplies should be of same power capacity

Facility-Severity-Mnemonic	Severity-Meaning	Message	Message-Explanation	Component	Recommended-Action
CMRP_PFU-6-PSU_VOLATGE_MIX_RECOVERED	6-Information	All PSUs are now connected to the same input voltage. System has recovered from mix of input voltages. PSU in slot [chars] is connected to [chars]	Some PSUs were connected to 110V and some were connected to 220V. This was not supported from hardware as it may have caused system failure. The system is now in a stable state with all PSUs connected to the same input voltage	ios-chassis-mgr	All the power supplies should be connected to same input voltage source
CMRP_PFU-6-PWR_MGMT_LC_RECOVERED	6-Information	Linecard in slot [dec] with priority [dec] has been recovered from shutdown	A LC was recovered from a shutdown	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-6-PWR_MGMT_NON_REDUNDANT	6-Information	Changing the power redundancy mode to non-redundant	Changing the power redundancy mode to non-redundant	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-6-PWR_MGMT_OK	6-Information	Sufficient number of power supplies ([dec]) are installed for power redundancy mode [chars] (excess power [dec] watts).	Sufficient number of power supplies are installed.	ios-chassis-mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-6-PWR_MGMT_OPERMODE_FULL_PROTECTED	6-Information	Changing the power redundancy operational mode to fully protected.	Changing the power redundancy operational mode to fully protected.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-6-PWR_MGMT_OPERMODE_NON_REDUNDANT	6-Information	Changing the power redundancy operational mode to non-redundant.	Changing the power redundancy operational mode to non-redundant.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-6-PWR_MGMT_OPERMODE_NORMAL_PROTECTED	6-Information	Changing the power redundancy operational mode to normal protected.	Changing the power redundancy operational mode to normal protected.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-6-PWR_MGMT_OPERMODE_REDUNDANT	6-Information	Changing the power redundancy operational mode to redundant.	Changing the power redundancy operational mode to redundant.	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-6-PWR_MGMT_REDUNDANT	6-Information	Changing the power redundancy mode to redundant.	Changing the power redundancy mode to redundant	ios-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-6-PWR_MGMT_SINGLE_SUP_NOTICE	6-Information	NOTICE([dec] of [dec]): System is now running in SINGLE-SUP power budget mode. Insertion of the remote supervisor is not supported in this power mode. System may shutdown if second supervisor is inserted.	User needs to be notified that single-sup mode is enabled	ios-chassis-mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
CMRP_PFU-6-PWR_PROTECTION_RECOVERED	6-Information	The power supply in slot P[dec] has been recovered from the power protection mode.	Power supply input are just recovered from an error condition,	iosxe-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-6-PWR_REDUN_RECOVERED	6-Information	System has recovered from the alarm state and has [dec] watts of power remaining	User has recovered the system from the alarm state triggered by a power failure	iosxe-chassis-mgr	LOG_STD_RECUR_ACTION
CMRP_PFU-6-PWR_UP_FRU	6-Information	Power up the card [chars] due to power budget change.	The total power become enough, power FRUs.	iosxe-chassis-mgr	LOG_STD_RECUR_ACTION
CONFIG_VALIDATOR_MESSAGE-5-EWLC_GEN_ERR	5-Notice	Error in [chars]	EWLC wireless config db Error Message.	iosxe-linux-utils	LOG_STD_ACTION
CSVERIFY-3-CSVERIFY_FAIL	3-Error	Signature verification: [[chars]]	During digital signature verification, an error has occured	iosxe-linux-utils	Check the diagnostic csverify trace file for more information on the underlying failure.
CSVERIFY-6-CSVERIFY_SUCCESS	6-Information	Signature verification success for [chars]	Signature verification was successful for the file mentioned.	iosxe-linux-utils	This is an informational message. No action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
CW_LIC-5-AP_AIR_STATE	5-Notice	AP with mac address [chars] has moved to AIR state	AP has moved to AIR state	ewlc-ap	If this message occurs, it implies that the given AP has moved to AIR state
CW_LIC-5-AP_COMPLIANT_STATE	5-Notice	AP with mac address [chars] has moved to compliant state	AP has moved to compliant state either on AP join or on SA notification	ewlc-ap	If this message occurs, it implies that the given AP has moved to compliant state from non-compliant, day n or end of term state
CW_LIC-5-AP_LICENSE_EXPIRATION_STATE	5-Notice	AP with mac address [chars] has moved to license expiration state	AP has moved to license expiration state	ewlc-ap	If this message occurs, it implies that the given AP has moved to license expiration state
CW_LIC-5-AP_NON_COMPLIANT_STATE	5-Notice	AP with mac address [chars] has moved to non-compliant state	AP has moved to non-compliant state either on AP join or on SA notification	ewlc-ap	If this message occurs, it implies that the given AP has moved to non-compliant state
CW_LIC-5-AP_POLICY_ALLOWED_STATE	5-Notice	AP with mac address [chars] has moved to policy allowed state	AP has moved to policy allowed state	ewlc-ap	If this message occurs, it implies that the given AP has moved to policy allowed state
CW_LIC-5-ENFORCED_AP	5-Notice	AP with mac address [chars] radios are down because of license enforcement	AP does not have license to bring up the radios	ewlc-ap	If this message occurs, it implies that the given AP does not have license, please report license usage with adequate number of licenses in virtual account for full functionality

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
CXPD-3-MAX_LOCAL_EXIT_EXCEEDED	3-Error	Maximum local exit: [dec] exceeded, failed to initialize application: [chars] (interface: [chars])	This syslog is generated when the number of DIA exits exceed maximum supported value. SaaS app initialization will fail because of this reason	cedge-cxp	CXP has reached the maximum number of probes it can handle. Need to disable either some applications or the links in which CoR SaaS is enabled
CXPD-5-APP_CHANGE	5-Notice	Application: [chars] exit changed from ([chars] via [chars]) local-color [chars] remote-color [chars] to ([chars] via [chars]) local-color [chars] remote-color [chars] from [dec]/[dec] to [dec]/[dec] (latency/loss) with path-status [chars]	This log is generated whenever exit for a SaaS application changes from one TLOC to another TLOC	cedge-cxp	No action is required
CXPD-5-SCORE_CHANGE	5-Notice	Application: [chars] ([chars] exit via [chars]), local-color: [chars], remote-color: [chars], score changed from [dec]/[dec] to [dec]/[dec] (latency/loss)	This syslog is generated whenever the score (loss/latency combination) changes for SaaS application over given TLOC	cedge-cxp	No action is required
DBAL-3-BIPC_MSG_ALLOC_FAIL	3-Error	BIPC msg size too big to allocate	BIPC msg size beyond limit.	polaris-infra	Report this occurance to Cisco TAC

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DBAL-3-MQIPC_ADVANCEERR	3-Error	MQIPC advance error [[chars]] reader [[chars]]	MQIPC fails to advance to the next msg in DBAL	polaris-infra	Report this occurance to Cisco TAC
DBAL-3-MQIPC_EVENTLOSS	3-Error	MQIPC event lost reader [[chars]]	MQIPC event notifying of non-empty queue not delivered to DBAL	polaris-infra	Report this occurance to Cisco TAC
DBAL-3-MQIPC_PEEKERR	3-Error	MQIPC peek error [[chars]] reader [[chars]] err_msg [[chars]]	MQIPC fails to peek and fetch a msg in DBAL	polaris-infra	Report this occurance to Cisco TAC
DBAL-3-MQIPC_READER_INIT_BY_TIMER	3-Error	MQIPC reader [chars] initialized by timer not chasfs watcher.	MQIPC reader initialized by timer not chasfs watcher.	polaris-infra	Report this occurance to Cisco TAC
DBAL-4-LONG_EXEC_BATCH	4-Warning	Long exec [[dec]:[dec]] create:exec:now [[dec]:[dec]:[dec]] e:p [[dec]:[dec]] resumes [[dec]] peer [[chars]]	DBAL batch execution took an extended period of time. This may or may not be a problem depending on the circumstances	polaris-infra	Collect log archive and show tech-support and report this occurance to Cisco TAC

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DBAL-6-DELAYED_BATCH	6-Information	Delayed batch [[dec]:[dec]] create:exec:notif:now [[dec]:[dec]:[dec]:[dec]] eproc [[dec]] e:p [[dec]:[dec]] peer [[chars]]	DBAL batch with an extended lifetime. This can occur when large amounts of data and/or operations are being performed.	polaris-infra	If this is causing impact to any service, collect log archive and show tech-support and report this occurance to Cisco TAC. Otherwise, safe to ignore.
DBGD-3-SYNTHETIC_TEST_PROBE_DNS_ERR	3-Error	DNS server is [chars], [chars] interface not valid in VRF: [chars]	This error syslog is generated during synthetic test probes when FQDN cannot be resolved due to errors in DNS config	edge-svcability	No action is required
DBGD-5-INTERFACE_AUTO_BW	5-Notice	Interface [chars] (vpn: [dec]) bandwidth determined by auto speedtest, upstream b/w: [dec] bps, downstream b/w: [dec] bps	This notice syslog is generated whenever upstream or downstream bandwidth of an interface is auto adjusted	edge-svcability	No action is required

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
DBGD-5-SYNTHETIC_TEST_PROBE_RESULT	5-Notice	Synthetic test probe result for app: [chars], url: [chars], src_intf: [chars], latency: [dec], loss: [dec]%%, score: [dec], count [dec]	This notice syslog is generated once synthetic test probe finishes measuing loss and latency to given SaaS application	cdge-vdaemon	No action is required
DBMS-2-INITIALIZATION_FAILED	2-Critical	DBLIB initialization failed for [chars]	Initialization of the database library failed.	cedge-platform-infra	Review Cable Device Manager logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?referring_site=bugtool, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
DBMS-3-IPC_ERROR	3-Error	DBLIB ipc failure : [chars]	An internal inter-process communication error has occurred.	dbplatform-infra	The ipc failure is reported by the operating system. Check the system resources and state to determine the source of the ipc failure. If the problem persists, or router performance is noticeably degraded, contact Cisco technical support. Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=tac_case_open.pl or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
DBMS-3-MALLOC_FAILED	3-Error	DBLIB malloc failed for [chars] size [dec]	An internal memory allocation has failed.	platform	Determine the cause of low system memory. Start by examining the system for memory leaks using the command 'show memory debug leaks'. If the problem persists, or router performance is noticeably degraded, contact Cisco technical support. Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=tac_case_open.xml or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DBMS-3-TDL_ERROR	3-Error	DBLIB TDL error : [chars]	A TDL messaging error has been detected.	cpe-platform-infra	Verify the route processors and cable linecard software versions are compatible. If the problem persists, or router performance is noticeably degraded, contact Cisco technical support. Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DBMS-5-CONNECTION_DROP	5-Notice	DBLIB RIPC connection from [chars] to [chars] dropped	An internal socket connection has been dropped.	platform-infra	Determine the cause of the connection drop. Examine the system logs for peer cards or processes that may have failed. If the problem persists, or router performance is noticeably degraded, contact Cisco technical support. Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl or contact your Cisco technical support representative and provide the representative with the gathered information.
DC_DYNAMIC_XML_LOG-3-DC_DYNAMIC_XML_CANNOT_GET_XML_FILE_SIZE	3-Error	Unable to get file size of dynamic XML file dc_user_profiles.xml	Unable to get file size of dynamic XML file dc_user_profiles.xml	ewlc-client	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
DC_DYNAMIC_XML_LOGS-3-DC_DYNAMIC_XML_CANNOT_LOAD_XML	3-Error	Unable to load dynamic XML file dc_user_profiles.xml	Unable to load dynamic XML file dc_user_profiles.xml	ewlc-client	LOG_STD_ACTION
DC_DYNAMIC_XML_LOGS-3-DC_DYNAMIC_XML_CANNOT_OPEN_XML_FILE	3-Error	Unable to open dynamic XML file dc_user_profiles.xml	Unable to open dynamic XML file dc_user_profiles.xml	ewlc-client	LOG_STD_ACTION
DC_DYNAMIC_XML_LOGS-3-DC_DYNAMIC_XML_CANNOT_PARSE_XML	3-Error	Unable to parse dynamic XML file dc_user_profiles.xml	Unable to parse dynamic XML file dc_user_profiles.xml	ewlc-client	LOG_STD_ACTION
DMI-2-CDB_MAN_SUB_FAIL	2-Critical	Failed to register as mandatory subscriber [chars] ([dec]): [chars]	A Confd error has occurred attempting to mark DMI as a mandatory subscriber	ddmi-infra	Stop and restart netconf-yang.
DMI-2-CHG_VRF_FAIL	2-Critical	The DMI application failed to set the correct virtual routing and forwarding network.	The DMI application failed to set the correct virtual routing and forwarding network; thus, it cannot communicate with Confd.	ddmi-infra	Stop and restart netconf-yang.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-2-CLI_CHANNEL_CLOSED	2-Critical	CLI engine event channel closed unexpectedly ([dec]): [chars].	The CLI engine event channel to the network element closed unexpectedly.	ddmi-infra	DMI will reset. No action necessary.
DMI-2-CONFD_CB_REG_DONE_FAIL	2-Critical	Failed to complete callback registration [chars] ([dec]): [chars].	A DMI application cannot complete callback registration with Confd.	ddmi-infra	Stop and restart netconf-yang.
DMI-2-CONFD_CB_REG_FAIL	2-Critical	Failed to register callback with Confd [chars] ([dec]): [chars].	A DMI application cannot register a particular callback with Confd.	ddmi-infra	Stop and restart netconf-yang.
DMI-2-CONFD_CONNECT_FAIL	2-Critical	Failed to connect to Confd via [chars] socket [chars] ([dec]): [chars].	A DMI application cannot connect to Confd via a particular socket type.	ddmi-infra	Stop and restart netconf-yang.
DMI-2-CONFD_INIT_FAIL	2-Critical	Failed to initialize Confd [chars] ([dec]): [chars].	Confd did not initialize properly.	ddmi-infra	Back out any recent yang model updates. Stop and restart netconf-yang.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-2-CONFD_SUB_DONE_FAIL	2-Critical	Failed to complete subscription [chars] ([dec]): [chars].	A DMI application cannot complete subscriptions for changes to yang models.	ddmi-infra	Back out any recent model updates. Stop and restart netconf-yang.
DMI-2-CONFD_SUB_FAIL	2-Critical	Failed to subscribe [chars] model [chars] ([dec]): [chars].	A DMI application cannot subscribe for changes to a particular yang model.	ddmi-infra	Back out any recent model updates. Stop and restart netconf-yang.
DMI-2-CONTROL_SOCKET_ERROR	2-Critical	Confd control socket ready check returned an error [chars] ([dec]): [chars].	The control socket connection to Confd has returned an error.	ddmi-infra	DMI will reset. No action necessary.
DMI-2-MAAPI_CONNECT_FAIL	2-Critical	Could not connect to Confd via DMI MAAPI socket [chars] ([dec]): [chars].	A Confd error has occurred attempting to connect via MAAPI socket.	ddmi-infra	Stop and restart netconf-yang.
DMI-2-MAAPI_WAIT_FAIL	2-Critical	Wait for Confd to initialize to phase two failed [chars] ([dec]): [chars].	Confd did not initialize properly.	ddmi-infra	Back out any recent yang model updates. Stop and restart netconf-yang.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-2-NESD_CREATE_FAIL	2-Critical	Failed to create nes daemon.	Either an out-of-memory condition has been encountered, or the DMI CLI engine cannot connect to the network element.	ddmi-infra	Stop and restart netconf-yang.
DMI-2-NESD_INIT_FAIL	2-Critical	Failed to initialize the network element synchronizer daemon	The nesd daemon failed to initialize.	ddmi-infra	Stop and restart netconf-yang.
DMI-2-NESD_PREHOOK_INIT_FAIL	2-Critical	Failed to initialize component-specific add-ons to the network element synchronizer daemon	The nesd daemon failed to initialize its component-specific add-ons.	ddmi-infra	Stop and restart netconf-yang.
DMI-2-NES_RESET_FAIL	2-Critical	Failed to reinitialize the DMI network element synchronizer daemon.	The network element synchronizer daemon cannot reset in order to recover from a critical error.	ddmi-infra	Stop and restart netconf-yang.
DMI-2-NETCONF_SSH_CRITICAL	2-Critical	NETCONF/SSH: [chars]	A critical message from the NETCONF SSH daemon.	ddmi-infra	Not applicable

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-2-NOTIFICATION_READ_FAIL	2-Critical	Failed to read notification [chars] ([dec]): [chars].	An attempt to read an event from the Confd notification socket failed.	ddmi-infra	DMI will reset. No action necessary.
DMI-2-RUNNING_DATASTORE_INVALID	2-Critical	Running datastore is invalid due to configuration failure during commit phase.	IOS configuration failed during commit phase of the transaction. As a result, running datastore is not in sync with IOS configuration. Configuration to IOS is not allowed until datastore becomes valid after full sync.	INVALID	Device will perform full-sync. CDB lock must be released by the controler to unblock full-sync.
DMI-2-SD_INIT_FAIL	2-Critical	Failed to initialize the syncfd daemon	The syncfd daemon failed to initialize.	ddmi-infra	Stop and restart netconf-yang.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-2-SD_RESET_FAIL	2-Critical	Failed to reinitialize the DMI syncfd daemon.	The syncfd daemon cannot reset in order to recover from a critical error.	ddmi-infra	Stop and restart netconf-yang.
DMI-2-VTY_SERVER_RESET_FAIL	2-Critical	Failed to reinitializie VTY server utility instance.	Failed to reset VTY server utility in order to recover from critical error.	ddmi-infra	Stop and restart netconf-yang.
DMI-2-WORKER_SOCKET_CLOSED	2-Critical	Confd worker closed unexpectedly [chars] ([dec]): [chars].	The worker socket connection to Confd has closed unexpectedly.	ddmi-infra	DMI will reset. No action necessary.
DMI-2-WORKER_SOCKET_ERROR	2-Critical	Confd worker socket ready check returned an error [chars] ([dec]): [chars].	The worker socket connection to Confd has returned an error.	ddmi-infra	DMI will reset. No action necessary.
DMI-3-AUTH_TIMED_OUT	3-Error	[chars] request from [chars]:[chars] for [chars] over [chars] timed out.	A AAA request timed out.	ddmi-infra	Check connectivity to the configured AAA server.
DMI-3-CDB_ABORT_FAIL	3-Error	Failed to abort transaction [chars] ([dec]): [chars].	A Confd error has occurred attempting to abort a transaction.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-CDB_READ_FAIL	3-Error	Could not read the yang path '[chars]' from the DMI data store [chars] ([dec]): [chars].	A Confd error has occurred attempting to read a specific model path from the DMI data store.	ddmi-infra	Download the model in question from the network element and verify the path exists. Update the model if needed.
DMI-3-CDB_SET_NAMESPACE_FAIL	3-Error	Could not set the model namespace '[chars]' for accessing the DMI data store [chars] ([dec]): [chars].	A Confd error has occurred attempting to set a specific model namespace for accessing the DMI data store.	ddmi-infra	Stop and restart netconf-yang.
DMI-3-CDB_START_FAIL	3-Error	Could not start session to read configuration from the DMI data store [chars] ([dec]): [chars].	A Confd error has occurred attempting to open the DMI data store.	ddmi-infra	Stop and restart netconf-yang.
DMI-3-CDB_SYNC_FAIL	3-Error	Confd subscription socket sync failed [chars] ([dec]): [chars].	A Confd error has occurred attempting to sync the subscription socket.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-CLI_ENGINE_CONNECT_FAIL	3-Error	Failed to connect to network element.	DMI cannot connect to the network element in order to interact with its CLI parser.	ddmi-infra	Check the CLI engine protocol settings.
DMI-3-CLI_ENGINE_CONNECT_LOSS	3-Error	Detected connection to the network element has been lost. Attempting to reconnect	DMI has lost connection to the network element.	ddmi-infra	No action necessary.
DMI-3-CLI_ENGINE_EVENT_FAIL	3-Error	Failed to retrieve CLI engine event ([dec]): [chars].	DMI cannot retrieve its CLI engine event in order to interact with the network element CLI parser.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.
DMI-3-CLI_ENGINE_LOG_LVL_FAIL	3-Error	Failed to set CLI engine logging level ([dec]): [chars].	DMI cannot set its CLI engine logging level.	ddmi-infra	Stop and restart DMI.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-CLI_ENGINE_POLL_FAIL	3-Error	Failed to read CLI engine results - max polling attempts exceeded ([dec]).	DMI cannot read its CLI engine results in order to interact with the network element CLI parser.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration. If problem continues, stop and restart netconf-yang
DMI-3-CLI_ENGINE_READ_EVENT_FAIL	3-Error	Failed to read CLI engine event ([dec]): [chars].	DMI cannot read its CLI engine event in order to interact with the network element CLI parser.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration. If problem continues, stop and restart netconf-yang
DMI-3-CLI_ENGINE_READ_FAIL	3-Error	Failed to read CLI engine results ([dec]): [chars].	DMI cannot read its CLI engine results in order to interact with the network element CLI parser.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-CLI_ENGINE_RECONNECT_FAIL	3-Error	Error reconnecting to the network element ([dec]): [chars]	The CLI engine has lost its connection to the network element and attempted to reconnect with an error occurred.	ddmi-infra	Stop and restart netconf-yang.
DMI-3-CLI_ENGINE_TOKEN_RETRY	3-Error	CLI engine authentication token is not available, retry for [dec] seconds	When IOSP-client connects to IOSP-server, it is authenticated by a session authentication token. The token is not available yet. Retry is made to retrieve the token.	ddmi-infra	None required
DMI-3-CLI_ENGINE_VTY_CREATE_FAIL	3-Error	The CLI engine failed to create a VTY instance ([dec]): [chars]	The DMI CLI engine cannot create a VTY instance.	ddmi-infra	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-CLI_ENGINE_VTY_OPEN_FAIL	3-Error	The CLI engine failed to open a VTY ([dec]): [chars]	The DMI CLI engine cannot open a VTY.	ddmi-infra	Free up available VTY resources by closing unused VTYs. Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration. If problem continues, stop and restart netconf-yang
DMI-3-CLI_ENGINE_VTY_TIMEOUT_FAIL	3-Error	The DMI CLI engine failed to disable the VTY timeout ([dec]): [chars]	DMI disables the VTY timeout for the network element synchronizer's VTY connection to ensure its number cannot be silently claimed by other VTY sessions.	ddmi-infra	None required
DMI-3-CLI_ENGINE_WRITE_FAIL	3-Error	Error writing the CLI: [chars] - [chars]	A CLI engine error occurred while send a command line to the network element's CLI parser	ddmi-infra	Enter the command line in question manually via the network element's console or vty. If successful, stop and restart netconf-yang and retry.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-CLI_GEN_FAIL	3-Error	Failed to generate CLI change set [chars] ([dec]): [chars].	A Confd error has occurred when requesting the CLI change set for a transaction.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.
DMI-3-DIFF_FAIL	3-Error	Error saving diff file: [chars]/[chars] - [chars]	An operating system error occurred while performing a diff of two files and redirecting to a third file.	ddmi-infra	Check free space on device. Clean up if necessary. Also, reducing the value of max-diag-messages-saved in the cisco-ia model may help.
DMI-3-DIR_EXISTS	3-Error	Message diagnostics directory '[chars]' exists, but is not a directory.	A existing file is conflicting with a directory name.	ddmi-infra	Remove or rename the offending file.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
DMI-3-EDIT_REJECTED	3-Error	The NETCONF running datastore edit request from application [chars], user [chars], via [chars] was recieved while a synchronization from the device running-configuration to the NETCONF running datastore was in progress. The edit request was rejected. Resend the edit request when the running-configuration synchronization has completed.	A NETCONF running datastore edit request occurred simultaneously with a database synchronization operation. Thus, the request has been rejected.	ddmi-infra	Retry the NETCONF edit again later.
DMI-3-INIT_SYNC_FAIL	3-Error	Initial DMI sync failed.	DMI failed to synchronize the network element's running configuration with the DMI data store upon DMI startup.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.
DMI-3-INTERNAL_ERROR	3-Error	Internal error - [chars] [dec]: [chars]	An unexpected internal error has occurred.	ddmi-infra	Consult man page for impacted area to interpret the error code and string.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-INVALID_PRESERVE_PATH	3-Error	The NED preserve path specified ||[chars]|| does not exist. Please remove from the /native/cisco-ia/preserve-ned-path list.	A non-existent XPath has been specified to be preserved during complete syncs.	ddmi-infra	Remove the offending path from the /native/cisco-ia/preserve-ned-path list.
DMI-3-INVALID_REG_EXP	3-Error	The regular expression ||[chars]|| is invalid. Please remove from the '[chars]' model or via the CLI '[chars] [chars]'	An invalid regular expression has been specified which will not compile.	ddmi-infra	Remove the offending regular expression from the specified model or via "no CLI".
DMI-3-LOAD_SCHEMAS_FAIL	3-Error	Cannot load Confd schemas [chars] ([dec]): [chars].	DMI failed to load Confd schemas for yang model namespaces.	ddmi-infra	Back out any recent yang model updates. Stop and restart netconf-yang.
DMI-3-MAAPI_APPLY_TRANS_FAIL	3-Error	Failed to apply a transaction via DMI MAAPI [chars] ([dec]): [chars].	A Confd error has occurred attempting to apply a transaction via MAAPI.	ddmi-infra	Stop and restart netconf-yang.
DMI-3-MAAPI_DELETE_FAIL	3-Error	Failed to delete model path '[chars]' via DMI MAAPI [chars] ([dec]): [chars].	A Confd error has occurred attempting to delete a model path via MAAPI.	ddmi-infra	Stop and restart netconf-yang.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-MAAPI_FINISH_TRANS_FAIL	3-Error	Failed to finish a transaction via DMI MAAPI [chars] ([dec]): [chars].	A Confd error has occurred attempting to finish a transaction via MAAPI.	ddmi-infra	Stop and restart netconf-yang.
DMI-3-MAAPI_KILL_SESSION_FAIL	3-Error	Could not kill DMI MAAPI user session [dec] - [chars] ([dec]): [chars].	A parser lock timeout has occurred, and DMI attempted to kill the session holding the global lock, but failed.	ddmi-infra	Kill the NETCONF user session holding the global lock manually.
DMI-3-MAAPI_LOAD_FAIL	3-Error	Failed to load '[chars]' commands to model path '[chars]' via DMI MAAPI [chars] ([dec]): [chars].	A Confd error has occurred attempting to load commands to a model path via MAAPI.	ddmi-infra	Stop and restart netconf-yang.
DMI-3-MAAPI_LOAD_FILE_FAIL	3-Error	Failed to load file '[chars]' via DMI MAAPI [chars] ([dec]): [chars].	A Confd error has occurred attempting to load commands from a file via MAAPI.	ddmi-infra	Stop and restart netconf-yang.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-MAAPI_LOCK_FAIL	3-Error	Failed to lock the DMI data store via DMI MAAPI [chars] ([dec]): [chars].	A Confd error has occurred attempting to lock the DMI data store via MAAPI.	ddmi-infra	Stop and restart netconf-yang.
DMI-3-MAAPI_SAVE_FAIL	3-Error	Could not save model path '[chars]' to file via DMI MAAPI [chars] ([dec]): [chars].	A Confd error has occurred attempting to save a model path via MAAPI.	ddmi-infra	Stop and restart netconf-yang.
DMI-3-MAAPI_START_TRANS_FAIL	3-Error	Could not start DMI MAAPI transaction [chars] ([dec]): [chars].	A Confd error has occurred attempting to start a transaction via MAAPI.	ddmi-infra	Stop and restart netconf-yang.
DMI-3-MAAPI_START_USER_FAIL	3-Error	Could not start DMI MAAPI user session [chars] ([dec]): [chars].	A Confd error has occurred attempting to start a user session via MAAPI.	ddmi-infra	Stop and restart netconf-yang.
DMI-3-MAAPI_UNLOCK_FAIL	3-Error	Failed to unlock the NETCONF running data store via MAAPI [chars] ([dec]): [chars].	A Confd error has occurred attempting to unlock the DMI data store via MAAPI.	ddmi-infra	Stop and restart netconf-yang.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-MEM_UNAVAIL	3-Error	Memory was not available to perform the DMI action.	Insufficient system memory is available to perform the DMI action.	ddmi-infra	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.
DMI-3-MODEL_RESTORE_FAIL	3-Error	DMI failed to restore the model '[chars]' from the network element's running configuration to the DMI data store ([dec]): [chars].	DMI failed to restore the model '%s' from the network element's running configuration to the DMI data store.	ddmi-infra	Check the netconf-yang section of the network element's running configuration. If populated with non-default values, stop and restart netconf-yang. If problem continues, restore the model's configuration in question via Netconf
DMI-3-NETCONF_KILL_SESSION	3-Error	NETCONF session [dec] has held a parser configuration lock/NETCONF datastore global lock for the maximum time allowed and has been killed.	A parser lock timeout has occurred, and DMI has killed the corresponding NETCONF session.	ddmi-infra	Establish a new NETCONF session. Adjust your application to hold global locks for a shorter interval -- seconds, not minutes
DMI-3-NETCONF_SSH_ERROR	3-Error	NETCONF/SSH: [chars]	An error message from the NETCONF SSH daemon.	ddmi-infra	Not applicable

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-SAVE_FAIL	3-Error	Error saving file: [chars] - [chars]	An operating system error occurred while opening or writing to a diagnostic file.	ddmi-infra	Check free space on device. Clean up if necessary. Also, reducing the value of max-diag-messages-saved in the cisco-ia model may help.
DMI-3-SYNC_CLI_FILTER_ADD_FAIL	3-Error	Failed to add CLI configuration monitor filter ([dec]): [chars].	DMI cannot add a CLI filter to monitor for external CLI changes.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.
DMI-3-SYNC_CLI_FILTER_CREAT_FAIL	3-Error	Failed to create CLI configuration monitor filter for pattern '[chars]' ([dec]): [chars].	DMI cannot create a CLI filter to monitor for external CLI changes.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.
DMI-3-SYNC_CLI_FILTER_MODE_FAIL	3-Error	Failed to set mode for CLI configuration monitor filter ([dec]): [chars].	DMI cannot set the mode for its CLI filter to monitor for external CLI changes.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-SYNC_ERR	3-Error	An attempt to synchronize the running configuration to the NETCONF running data store has failed: [chars]	An attempt to send the running-config to ConfD to repopulate its data store has failed.	ddmi-infra	Identify the offending CLI that makes the sync fail and delete it from the configuration.
DMI-3-SYNC_FAIL	3-Error	An attempt to synchronize the running configuration to the NETCONF running data store has failed.	An external change (outside of NETCONF or RESTCONF) has been detected. An attempt to send the running-config to Confd to repopulate its data store has failed.	ddmi-infra	Force a full sync via the 'sync-from' RPC.
DMI-3-SYNC_LOCK_FAIL	3-Error	Failed to lock the NETCONF running data store via MAAPI [chars] ([dec]): [chars].	A Confd error has occurred attempting to lock the DMI data store via MAAPI.	ddmi-infra	Stop and restart netconf-yang.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-SYNC_MODULE_CHECK_ADD_FAIL	3-Error	Failed to add module up check ([dec]): [chars].	DMI cannot add a module up check to monitor for module up status.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.
DMI-3-SYNC_OIR_FILTER_ADD_FAIL	3-Error	Failed to add OIR monitor filter ([dec]): [chars].	DMI cannot add an OIR filter to monitor for OIR induced configuration changes.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.
DMI-3-SYNC_OIR_FILTER_CREAT_FAIL	3-Error	Failed to create OIR monitor filter ([dec]): [chars].	DMI cannot create an OIR filter to monitor for OIR induced configuration changes.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.
DMI-3-SYNC_SYSLOG_FILTER_ADD_FAIL	3-Error	Failed to add syslog monitor filter ([dec]): [chars].	DMI cannot add a syslog filter to monitor for external CLI changes.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-SYNC_SYSLOG_FILTER_CREAT_FAIL	3-Error	Failed to create syslog monitor filter for pattern '[chars]' ([dec]): [chars].	DMI cannot create a syslog filter to monitor for external CLI changes.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.
DMI-3-SYNC_UNLOCK_FAIL	3-Error	Failed to unlock the NETCONF running data store via MAAPI [chars] ([dec]): [chars].	A Confd error has occurred attempting to unlock the DMI data store via MAAPI.	ddmi-infra	Stop and restart netconf-yang.
DMI-3-VTY_NUM_FAIL	3-Error	DMI failed to retrieve its tty number from the network element	DMI must keep track of its tty number it uses to send command lines to the network element's parser in order to avoid triggering its own sync events	ddmi-infra	Check that the 'show users line' command line is working
DMI-3-VTY_SERVER_CREAT_FAIL	3-Error	Failed to create VTY server utility instance.	Failed to create VTY server utility instance for DMI operational data use.	ddmi-infra	Stop and restart netconf-yang.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-3-VTY_SERVER_START_FAIL	3-Error	Failed to start VTY server utility instance.	Failed to start VTY server utility instance for DMI operational data use.	ddmi-infra	Stop and restart netconf-yang.
DMI-4-CANDIDATE_DATASTORE_DIRTY	4-Warning	Synchronization of the running configuration to the running datastore is deferred because the candidate datastore is dirty. Commit or discard the uncommitted configuration.	Configuration is performed from the IOS terminal while the candidate datastore has uncommitted configuration. The system cannot perform sync until the configuration in the datastore is either committed or discarded.	INVALID	Commit or discard the configuration in the candidate datastore in order for the sync to proceed.
DMI-4-CDB_MAINTENANCE_MODE	4-Warning	WARNING!!! - CDB MAINTENANCE MODE IS ACTIVE - [chars]. This mode is intended only for Cisco support - it must be disabled for normal NETCONF operation.	A Cisco-support only NETCONF mode has been enabled as a recovery mechanism for an out-of-sync condition.	ddmi-infra	Disable this mode in order to return the device to normal NETCONF operation.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-4-CLI_ENGINE_ENABLE_FAIL	4-Warning	The DMI CLI engine failed to enable the network element's CLI parser (enter privileged mode) ([dec]): [chars]	DMI cannot enter privileged mode when communicating with the network element's CLI parser.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration. Check AAA settings for the Netconf/Restconf user account.
DMI-4-CLI_ENGINE_RC_FAIL	4-Warning	The DMI CLI engine failed to get the overall return code from the command '[chars]' ([dec]): [chars]	DMI cannot read CLI engine return code for the particular command.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration. If problem continues, stop and restart netconf-yang
DMI-4-CLI_ENGINE_STATE_FAIL	4-Warning	Failed to query the CLI engine state ([dec]): [chars]	DMI cannot read its CLI engine state.	ddmi-infra	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration. If problem continues, stop and restart netconf-yang
DMI-4-CLI_LOCK_FAIL	4-Warning	Failed to obtain exclusive access to the IOS parser: [chars].	An IOS parser error has occurred attempting to obtain a configuration parser lock.	ddmi-infra	Retry NETCONF operation.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-4-CLI_LOCK_OVERRIDE	4-Warning	Configuration lock cleared and obtained by NETCONF session.	An IOS parser lock has been cleared to avoid conflict with NETCONF session.	ddmi-infra	Retry CLI operation after NETCONF session completes.
DMI-4-CLI_ROLLBACK_WARN	4-Warning	CLI rollback warning: tid ([dec]): [chars].	A Confd induced CLI transaction was aborted and during the rollback CLIs, an error was returned	ddmi-infra	Confirm that the network element's running configuration is in the original state before the failed transaction
DMI-4-CLI_UNLOCK_FAIL	4-Warning	Failed to unlock the IOS parser store: [chars].	An IOS parser error has occurred attempting to unlock the parser lock.	ddmi-infra	Retry NETCONF operation.
DMI-4-CONFD_ROLLBACK_WARN	4-Warning	Error copying Confd rollback file ([dec]): [chars]	An error occurred saving the Confd rollback information.	ddmi-infra	Please enable rollback in Confd. Check for free file system space.
DMI-4-CONTROL_SOCKET_CLOSED	4-Warning	Confd control socket closed [chars] ([dec]): [chars].	The control socket connection to Confd has closed unexpectedly.	ddmi-infra	DMI will reset. No action necessary.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-4-DIAG_WARN	4-Warning	Unable to prepare file system for message diagnostics.	An error occurred saving DMI message diagnostics.	ddmi-infra	Check for free file system space.
DMI-4-NETCONF_TRACE_WARN	4-Warning	Error copying netconf.trace.	An error occurred saving the Netconf trace information.	ddmi-infra	Please enable netconfTraceLog in Confd. Check for free file system space.
DMI-4-RUNNING_DATASTORE_VALID	4-Warning	Running datastore is valid.	Running datastore is valid after successful full-sync operation.	INVALID	Rollback configurations using rollback-files RPC to bring device into well known state.
DMI-4-SUB_READ_FAIL	4-Warning	Confd subscription socket read failed [chars] ([dec]): [chars].	A Confd error has occurred attempting to read the subscription socket.	ddmi-infra	DMI will reset. No action necessary.
DMI-5-ACTIVE	5-Notice	process is in steady state.	process is in steady state.	ddmi-infra	Informational only. No action required.
DMI-5-AUTHENTICATION_FAILED	5-Notice	Authentication failure from [chars]:[chars] for [chars] over [chars].	A user failed to authenticate.	ddmi-infra	No action is required.
DMI-5-AUTHORIZATION_FAILED	5-Notice	User '[chars]' from [chars]:[chars] was not authorized for [chars] over [chars].	A user was not authorized for the requested service.	ddmi-infra	No action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-5-AUTH_PASSED	5-Notice	User '[chars]' authenticated successfully from [chars]:[chars] for [chars] over [chars]. External groups: [chars]	A user authenticated successfully for a service.	ddmi-infra	No action is required.
DMI-5-CONFIG_I	5-Notice	Configured from [chars] by [chars], transaction-id [dec]	A change to the running configuration was performed using NETCONF or RESTCONF.	ddmi-infra	Informational only. No action required.
DMI-5-INITIALIZED	5-Notice	process has initialized.	process has initialized.	ddmi-infra	Informational only. No action required.
DMI-5-NACM_INIT	5-Notice	NACM configuration has been set to its initial configuration.	The running-config under the /nacm tree has been set to its initial configuration.	ddmi-infra	No action is required.
DMI-5-NACM_READRULES	5-Notice	NACM readrules for privilege level [dec] loaded successfully.	NACM rules to permit readonly access loaded successfully.	ddmi-infra	No action is required.
DMI-5-RESCUE_CFG_APPLIED	5-Notice	Rescue config applied successfully.	Rescue configuration applied successfully.	ddmi-infra	No action is required.
DMI-5-RESCUE_CFG_DELETED	5-Notice	Rescue config deleted successfully.	Rescue configuration deleted successfully.	ddmi-infra	No action is required.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
DMI-5-RESCUE_CFG_SAVED	5-Notice	Rescue config saved successfully.	Rescue configuration saved successfully.	ddmi-infra	No action is required.
DMI-5-RESET	5-Notice	process internal state reset.	process internal state reset.	ddmi-infra	Informational only. No action required.
DMI-5-SYNC_COMPLETE	5-Notice	The running configuration has been synchronized to the NETCONF running data store.	An external change (outside of NETCONF or RESTCONF) has been detected; thus, the running-config has been sent to Confd to repopulate its data store.	ddmi-infra	Informational only. No action required.
DMI-5-SYNC_NEEDED	5-Notice	Configuration change requiring running configuration sync detected - '[chars]'. The running configuration will be synchronized to the NETCONF running data store.	A configuration change that may trigger additional changes has been detected; thus, the running-config will be sent to Confd to repopulate its data store.	ddmi-infra	Informational only. No action required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DMI-5-SYNC_START	5-Notice	Synchronization of the running configuration to the NETCONF running data store has started.	An external change (outside of NETCONF or RESTCONF) has been detected; thus, the running-config will be sent to Confd to repopulate its data store.	ddmi-infra	Informational only. No action required.
DMI-6-NETCONF_SSH_INFO	6-Information	NETCONF/SSH: [chars]	An informational message from the NETCONF SSH daemon.	ddmi-infra	Not applicable
DMI-7-GEN_DEBUG	7-Debug	DMI DEBUG [chars] [chars]	A debug message for syslog consumption. For troubleshooting wihtout btrace	ddmi-infra	Not applicable
DOT11_LOG-3-CLIENT_DOT11_ERROR	3-Error	Error in [chars]	General Client Dot11 Error Message.	ewlc-client	LOG_STD_ACTION
DOT1X-3-PROC_START_ERR	3-Error	Dot1x unable to start.	The system failed to create the Dot1x process.	polaris-smd	Restart Dot1x process by entering <cmd>dot1x system-auth-control<cmd> command. If this message recurs, Reload the device.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
DOT1X-3-UNKN_ERR	3-Error	An unknown operational error occurred.	The Dot1x process cannot operate due to an internal system error.	polaris-smd	Reload the device/process
DOT1X-4-INFO_EAPOL_PING_RESPONSE	4-Warning	The interface [chars] has an 802.1x capable client with MAC [chars]	An EAPOL ping was sent out on this port to determine 802.1x readiness of the client attached. An EAPOL response has been received by the device such as a PC.	polaris-smd	No action required.
DOT1X-4-MEM_UNAVAIL	4-Warning	Memory was not available to perform the 802.1X action. AuditSessionID [chars]	Insufficient system memory is available to perform the Dot1x Authentication.	polaris-smd	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.
DOT1X-5-FAIL	5-Notice	Authentication failed for client ([chars]) with reason ([chars]) on Interface [chars] AuditSessionID [chars] [chars] [chars]	Dot1x authentication was unsuccessful.	polaris-smd	No action is required.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
DOT1X-5-RESULT_OVERRIDE	5-Notice	Authentication result overridden for client ([chars]) on Interface [chars] AuditSessionID [chars]	Authentication result was overridden	polaris-smd	No action is required.
DOT1X-5-SUCCESS	5-Notice	Authentication successful for client ([chars]) on Interface [chars] AuditSessionID [chars] Username [chars]	Dot1x authentication was successful.	polaris-smd	No action is required.
DTLS_AUDIT_MESSAGE-6-DTLS_AUDIT_CS_DTLS_EXT_2_DTLS_REPLAY_ATTACK	6-Information	User ID: [chars] - DTLS Replay Attack for connection closed	DTLS Replay Attack for connection closed	ewlc-ap	LOG_STD_ACTION
DTLS_AUDIT_MESSAGE-6-DTLS_AUDIT_CS_DTLS_EXT_2_DTLS_REPLAY_ATTACK_DETECTED	6-Information	User ID: [chars] - DTLS Replay Attack detected for Source IP [chars] and Dest IP [chars]	DTLS Replay Attack detected for Source IP and Dest IP	ewlc-ap	LOG_STD_ACTION
DTLS_AUDIT_MESSAGE-6-DTLS_AUDIT_PT_IT_1_DTLS_SESSION_CLOSED	6-Information	User ID: [chars] - DTLS peer has closed the connection, cipher [chars]	DTLS connection established with peer	ewlc-ap	LOG_STD_ACTION
DTLS_AUDIT_MESSAGE-6-DTLS_AUDIT_PT_IT_1_DTLS_SESSION_ESTABLISHED	6-Information	User ID: [chars] - DTLS connection established with peer, cipher [chars]	DTLS connection established with peer	ewlc-ap	LOG_STD_ACTION
DTLS_AUDIT_MESSAGE-6-DTLS_AUDIT_PT_IT_1_DTLS_SESSION_HANDSHAKE_FAILURE	6-Information	User ID: [chars] - Failed to complete DTLS handshake with peer, reason: [chars]	Failed to complete DTLS handshake with peer	ewlc-ap	LOG_STD_ACTION
DTLS_TRACE_MSG-3-WLC_DTLS_ERR	3-Error	DTLS Error, [chars]	General ewlc Error Message.	ewlc-ap	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
DTLS_TRACE_MSG-3-X509_CERT_VERIFY_ERR	3-Error	Cert verify Error, [chars]	General ewlc Error Message.	ewlc-ap	LOG_STD_ACTION
EAP-2-PROCESS_ERR	2-Critical	EAP critical error [chars]	This is critical condition where the router could not perform EAP process related operation.	polaris-smd	Review SM logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log. Reload the device/process.
EAP-3-BADPKT	3-Error	IP=[chars] HOST=[chars]	This messages informs that the router received an invalid or malformed EAP packet from the specified host.	polaris-smd	Check specified host for EAP operation.
EAP-6-FIPS_UNSUPPORTED_METHOD	6-Information	Method [chars] in eap profile [chars] is not allowed in FIPS mode	This message informs that a method is not supported in FIPS mode.	polaris-smd	Use FIPS supported methods - PEAP, TLS and FAST

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
EAP-6-MPPE_KEY	6-Information	IP=[chars] MPPE_RCV_KEY_LENGTH=[dec]	This messages informs that the router received MPPE KEY for the specified host.	polaris-smd	No action is required.
EMD-0-EVENT_LIBRARY	0-Emergency	An event facility initialization or maintenance function failed because [chars]	An event facility initialization or maintenance function failed. This error could be due to a software defect or system resource limitation.	iosd-chassismgr	Restart the card.
EMD-0-RESOLVE_FRU	0-Emergency	Failed to determine [chars] card because [chars]	The system was unable to to determine a card state. This error could be due to a software defect or system resource limitation.	iosd-chassismgr	Restart the card.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
EMD-0-SERVICES_INITIALIZATION	0-Emergency	Failed to initialize general application services because [chars]	The system failed to initialize the application services. This error could be due to a software defect or system resource limitation.	ios-chassis-mgr	Restart the card.
EMD-3-IDPROM_ACCESS	3-Error	Failed access or process an IDPROM because [chars]	The system failed to access an IDPROM or an IDPROM process failed. This error can occur from a hardware defect, software defect, or incorrect IDPROM content.	ios-chassis-mgr	Examine the logs for IDPROM and hardware errors.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
EMD-3-IDPROM_SENSOR	3-Error	One or more sensor fields from the idprom failed to parse properly because [chars].	One or more IDPROM sensor fields failed to parse properly. The most likely reason is a checksum failure in the IDPROM from incorrect IDPROM content.	chassis	Examine the logs for IDPROM and hardware errors.
EMD-3-PFU_INITIALIZATION	3-Error	The RP has failed to initialize a Power Supply/Fan module controller because [chars]	The route processor (RP) failed to initialize a power supply or a fan module controller. This error could be caused by a hardware defect or a C2W access failure.	chassis	Examine the logs for C2W and hardware errors.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
EMD-3-SENSOR_INITIALIZATION	3-Error	Failed to initialize sensor monitoring because [chars].	The system failed to initialize an IDPROM sensor monitoring process. This error can occur from a hardware defect, software defect, or incorrect IDPROM content.	ios-chassis-mgr	Examine the logs for IDPROM and hardware errors.
EPM-4-ACL_CONFIG_ERROR	4-Warning	ACL NAME '[chars]' | ACE SEQUENCE [dec] | RESULT FAILURE | REASON [chars]	This message indicates that adding an ACE to the specified ACL was ignored because of wrong configuration	polaris-smd	Change ACE configuration for the specifed ACL
EPM-4-POLICY_APP_FAILURE	4-Warning	Policy Application Failed for Client [[chars]] MAC [[chars]] AuditSessionID [[chars]] for POLICY_TYPE [chars] POLICY_NAME [chars] REASON [chars]	This message indicates that the displayed policy for the client could not be applied by the EPM	polaris-smd	Policy application failure could happen due to multiple reasons.The reason for the failure is notified to the client and the client has to take appropriate action based on it

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
EPM-6-AAA	6-Information	POLICY [chars]| EVENT [chars]	This message indicates a download request has been sent/downloaded successfully for the specified dACL	polaris-smd	No action required
EPM-6-AUTH_ACL	6-Information	POLICY [chars]| EVENT [chars]	his message indicates a AUTH_DEF_ACL or AUTH_DEF_ACL_OPEN has been applied or removed	polaris-smd	No action required
EPM-6-IPEVENT	6-Information	IP [chars]| MAC [chars]| AuditSessionID [chars]| EVENT [chars]	This message indicates the IP event WalledGardenAssignment that has occured with respect to the specified host	polaris-smd	No action required
EPM-6-POLICY_APP_SUCCESS	6-Information	Policy Application succeded for Client [[chars]] MAC [[chars]] AuditSession ID [[chars]] for POLICY_TYPE [[chars]] POLICY_NAME [[chars]]	This message indicates that the displayed policy for the client has been applied successfully by the EPM	polaris-smd	No action required

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
EPM-6-POLICY_REQ	6-Information	IP [chars]| MAC [chars]| AuditSessionID [chars]| EVENT [chars]	This message indicates that a policy application/removal request has been received by the EPM	polaris-smd	No action required
EPM_PLUGIN-5-ERR_HS20_URLFILTER_NOT_CONFIGURED	5-Notice	Attempt to enable url filtering for Hotspot 2.0 client [chars] without having an Hotspot 2.0 urlfilter configured	An attempt was made to activate post-auth Hotspot 2.0 url filtering on the client, as requested by the Radius server but no urlfilter list name configured under the wireless hotspot anqp-server linked with the wireless policy profile.	ewlc-spwifi	Make sure a valid urlfilter list name is configured under the wireless hotspot anqp-server profile linked with the wireless policy profile

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
EPM_PLUGIN-5-ERR_VLAN_NOT_FOUND	5-Notice	Attempt to assign non-existent or shutdown VLAN [chars] to 802.1x port [chars] AuditSessionID [chars]	An attempt was made to assign a VLAN to an 802.1x port, but the VLAN was not found in the VTP database.	polaris-smd	Make sure the VLAN exists and is not shutdown or use another VLAN.
EPM_PLUGIN-5-IGNORED_VLAN_VALIDATION	5-Notice	Vlan [chars] not defined on the controller, choosing Vlan [dec]	Either the client is export-foreign or fallback-vlan CLI is configured	polaris-smd	Check if fallback-vlan is configured or if the client is export foreign. In such a case, no action needs to be taken.
EPM_PLUGIN-5-PRINT_SEQUENCE	5-Notice	Creating ACE [dec] for ACL [chars]	Every 10000th ACE and its ACL name printed to indicate the ACEs being created.	polaris-smd	Please check that the ACE count matches the configured ACE count.
EPM_PLUGIN-5-VLAN_ASSIGN	5-Notice	Vlan assignment successful for client : [chars] with Vlan id : [dec] on Interface : [chars], AuditSessionID is [chars]	The syslog indicates that the Vlan was assigned to the client	polaris-smd	No action is required.
EPM_PLUGIN-6-STICKY_TIMER_START	6-Information	Sticky timer of [dec] seconds started for mac [chars] interface [chars] for template [chars]	Log is used to notify the start of the sticky timer	polaris-smd	Sticky timer has begun. No action needs to be taken.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
EPOCH-6-EPOCH_REJECTED	6-Information	Peer [chars] has rejected epoch: [chars]	This error occurs if epoch from shell-manager has been rejected by the peer.	iosxe-shell-mgr	Check the epoch and peer state.
EVUTIL-3-PERMISSION	3-Error	Operation not permitted for pid [dec] tid [dec]	Eventlib has detected that a process has attempted to invoke an API that is listed as having a level of permission.	iosxe-binos-utils	Review the process logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
EVUTIL-3-PREREQUISITE_INIT	3-Error	A preferred library has failed to initialize: [chars]	Eventlib has detected that a preferred library which provides infrastructure services has failed to fully initialize.	ios-libios-util	Review the process logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl or contact your Cisco technical support representative and provide the representative with the gathered information.
EVUTIL-6-PREREQUISITE	6-Information	Preferred library is absent	Eventlib has detected that a preferred library is missing from the process.	ios-libios-util	This is an informational message.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
EWLC_HA_LIB_MESSAGE-3-BULK_SYNC_STATE_ERR	3-Error	Error: Bulk sync status : [chars]	Bulk sync status Error message. TERMINATED - Bulk-sync terminated	ewlc-ha	LOG_STD_NO_ACTION
EWLC_HA_LIB_MESSAGE-3-WIRELESS_CONFIG_SYNC_FAIL	3-Error	Error: Wireless config sync not complete. Reloading the WLC!	Switchover happens before wireless config sync is complete!	ewlc-ha	LOG_STD_ACTION
EWLC_HA_LIB_MESSAGE-6-BULK_SYNC_STATE_INFO	6-Information	INFO: Bulk sync status : [chars]	Bulk sync status INFO message. COLD - Bulk-sync ongoing. CONFIG_DONE - critical DB sync complete. WARM - Most of the DB's synced. HOT - Bulk-sync completed	ewlc-ha	LOG_STD_NO_ACTION
EWLC_INFRA_MESSAGE-3-EWLC_EVENTHOG	3-Error	Event name: [chars]	System has detected an excessive number of sub-events. Normal WLC functionality may be impacted.	ewlc-app-infra	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
EWLC_INFRA_MESSAGE-3-EWLC_GEN_ERR	3-Error	Error in [chars]	General ewlc Error Message.	iosxe-infra-os-utils	LOG_STD_ACTION
EWLC_INFRA_MESSAGE-4-EWLC_CAC_WARNING_MSG	4-Warning	CPU Utilization [chars]	CPU utilisation for the process has breached the monitored level, some functionality may be impacted. If the condition persists, action may be needed.	ewlc-ap	If the condition is transient and does not occur frequently, these messages can be ignored otherwise an investigation is needed. LOG_STD_ACTION
EWLC_INFRA_MESSAGE-6-EWLC_CAC_INFO	6-Information	CPU Utilization [chars]	CPU Utilisation for the process has recovered below the monitored level	ewlc-ap	LOG_STD_NO_ACTION
EWLC_UTILITY_AUDIT_MESSAGE-3-AUDIT_SCRM_WPA2PRF_TOO_LARGE	3-Error	User ID: [chars] - Failed to compute PRF mode ([dec]), size ([dec]) - input is too large	Failed to compute PRF mode because of input is too large	iosxe-infra-os-utils	LOG_STD_RECUR_ACTION
EWLC_UTILITY_AUDIT_MESSAGE-3-AUDIT_SCRM_WPA2INVALID_MODE	3-Error	User ID: [chars] - Failed to compute PRF mode ([dec]), size ([dec]) - invalid mode	Failed to compute PRF mode because of invalid mode	iosxe-infra-os-utils	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
EWLC_UTILITY_AUDIT_MESSAGE_FAILED_TO_COMPUTE_PRF_MODE_OUTPUT_BUFFER_SMALL	3-Error	User ID: [chars] - Failed to compute PRF mode ([dec]), size ([dec]) - output buffer is too small	Failed to compute PRF mode because of output buffer is too small	iosxe-bmcs-utils	LOG_STD_RECUR_ACTION
EZMAN_CLIENT-2-ECC_DOUBLE_BIT_ERROR	2-Critical	Double bit ECC errors observed. NP (CC card) is going to be reloaded to recover	ECC error observed on the NP device.Reset the NP Device.	asr1k-ether-lc	This error is usually self-correcting. If the problem persists, the CC card/hardware may need to be replaced.
EZMAN_CLIENT-3-ECC_SINGLE_BIT_ERROR	3-Error	Single bit ECC error	ECC error observed on the NP device.Reset the NP Device.	asr1k-ether-lc	This error is usually self-correcting. If the problem persists, the MIP100 hardware may need to be replaced.
EZMAN_CLIENT-3-OBJECT_FAIL	3-Error	Failed to bringup [chars]. Failure reason is [chars]	Bringup of [chars] has failed in EZMAN. This can be due to any hardware/software failures and can be a serious error	asr1k-ether-lc	Restart the Linecard.
EZMAN_CLIENT-3-VLAN_STATS_ERR	3-Error	NP Counter Read Failed for Vlan [dec] [dec]	NP VLAN statistics error.	asr1k-ether-lc	Continous MSG of these Events, Trigger the reboot of the system

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
EZMAN_CLIENT-5-EZ_CLIENT_VLAN_FULL	5-Notice	TCAM Full VLAN is not Able to add	Rx Sync Failed for Interlaken, Status Timer Expired. So, Resetting the Rx Interlaken Core	asr1k-ether-lc	No user action is required.
EZMAN_INFRA-3-PLATFORM_ID_ERR	3-Error	Invalid HW Part number([dec]) and HW Revision([dec])	HW Part number and revision read from the IDPROM are not showing up expected values which means the IDPROM is either corrupted or incorrectly programmed.	asr1k-ether-lc	Possible Hardware issue. Change the hardware.
EZMAN_RM-2-FPGA_VERSION_CHECK_ERR	2-Critical	CASTOR FPGA[[dec]] version does not meet minimum required version. Read version : 0x%x, Min Req Version : 0x%x	Castor FPGA version requirement not met.	asr1k-ether-lc	Copy the message exactly as it appears on the console or in the system log, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
EZMAN_RM-2-SEM_ERR	2-Critical	CASTOR FPGA[[dec]] - SEU event has occurred. Event code: [dec], SLR: 0x%x, Frame: 0x%x, Word, 0x%x, Bit: 0x%x	A Single Event Upset (SEU) event has occurred. These events may occur at any point of time, but are considered to be rare.	asr1k-ether-lc	If the error is seen only once, there is no need for anything to be done. If these errors are appearing continuously/persistently, please copy over the logs as they appear in the console, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.
EZMAN_RM-3-L2_BLOCK_EVENT	3-Error	L2 Block Event Node:[chars] (0x%08X - Tree [dec] Instance [dec])	NP of L2 is generating Events.	asr1k-ether-lc	Continous MSG of these Events, Trigger the reboot of the system
EZMAN_RM-3-SERDES_AUTOTUNE_FAIL	3-Error	Serdes Autotune [chars] on lane [dec]	NP5 Serdes RX is unable to autotune to the peer device's TX. This is a physical layer issue between NP5 and peer device.	asr1k-ether-lc	OIR the Host-card if possible.

F to J

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED-0-HWSTALL	0-Emergency	ASIC [dec] CORE [dec] Packet Buffer Complex Stalled. Switch will be reloaded\n	The specified asic/core packet buffer complex stalled. This is a critical error. This switch will reload. If there is a redundant switch, switch over will happen	platform_mgr	No action is required
FED-2-INIT_FAILED	2-Critical	Module [chars] failed initialization\n[chars]	The specified module failed initialization. The switch will reload.	platform_mgr	No action is required
FED3_EPC_ERRMSG-4-UNSUPPORTED	4-Warning	EPC on interface [chars] is not supported.To recover, Stop the capture.\n	Unsupported configuration.	INVALID	Stop the capture on %s interface.\n

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED3_L2M-4-RSRC_group_limit	4-Warning	Layer2 Multicast current snooping group scale [[dec]] is exceeding the recommended scale [[dec]], Consider reducing the joins.	Hardware may still support the scale, but the system should not exceed the recommended scale to remain functional	INVALID	Find out the total snooping groups across ipv4 and ipv6, consider reducing the joins to the groups as switch is not capable or disable the snooping for few Vlans as needed
FED3_L2M-4-RSRC_group_ports_limit	4-Warning	Layer2 Multicast current group ports scale [[dec]] is exceeding the recommended scale [[dec]], Consider reducing the joins.	Hardware may still support the scale, but the system should not exceed the recommended scale to remain functional	INVALID	Find out the total group ports across ipv4 and ipv6, consider reducing the joins to the groups as switch is not capable or disable the snooping for few Vlans as needed
FED3_L3M_SYS_MSG-3-RSRC_IPv4_ERR	3-Error	Failed to allocate the hardware resource for ipv4 multicast entry. Use \'show platform software fed [switch] <module> ip multicast retry mroute\' for details.	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED3_L3M_SYS_MSG-3-RSRC_IPv6_ERR	3-Error	Failed to allocate the hardware resource for ipv6 multicast entry. Use \'show platform software fed [switch] <module> ipv6 multicast retry mroute\' for details.	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED3_L3M_SYS_MSG-4-RSRC_mioitem_limit	4-Warning	Layer3 Multicast current oif scale [[dec]] is exceeding the recommended scale [[dec]], Consider reducing the multicast routes or PIM Joins.	Hardware may still support the scale, but the system should not exceed the recommended scale to remain functional	INVALID	Find out the total mioitems across ipv4 and ipv6, consider reducing the joins to the groups as switch is not capable
FED3_L3M_SYS_MSG-4-RSRC_mroute_limit	4-Warning	Layer3 Multicast current mroute scale [[dec]] is exceeding the recommended scale [[dec]], Consider reducing the multicast routes or PIM Joins.	Hardware may still support the scale, but the system should not exceed the recommended scale to remain functional	INVALID	Find out the total mroutes across ipv4 and ipv6, consider reducing the joins to the groups as switch is not capable

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FED3_L3M_SYS_MSG-6-RSRC_Recovered	6-Information	Failed Multicast hardware resources recovered. Multicast replication will be operational again.	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED3_L3_ERRMSG-3-L3_FIB_OUT_OF_RESOURCE	3-Error	Failed to program [chars] fib [chars]/[dec] in NPU due to out of resource\n	Running out of Hardware resource to support the scale of this L3 FIB feature.	INVALID	Verify supported scale for the platform from sdm and reduce the scale accordingly. Capture show platform software fed active ip/ipv6 route summary
FED3_L3_ERRMSG-3-L3_PORT_OUT_OF_RESOURCE	3-Error	Failed to program port [chars] in NPU due to out of resource\n	Running out of Hardware resource to support the scale of the L3 Port feature.	INVALID	Verify supported scale for the platform from sdm and reduce the L3 Port scale accordingly. Capture show platform hardware fed active fwd-asic resource utilization
FED3_L3_ERRMSG-3-UNSUPPORTED_ACTION	3-Error	ERROR:[chars] Additionally, please remove this command from the interface config mode.\n	The specified action is not supported on this platform.	INVALID	Find out more about this unsupported functionality from the release documents and remove the command from the interface config mode

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED3_L3_ERRMSG-6-ADVISORY_NOTICE	6-Information	Advisory Notice: [chars] \n	This message is to bring attention to the user about certain capabilities and limitations of a feature.	INVALID	No action is needed. Please be mindful of the limitations.
FED3_MPLS_ERRMSG-3-mpls_unsupported_feature	3-Error	Unsupported feature. Failed to program. [chars] in software or hardware\n	The feature is not yet supported.	INVALID	Find out more about this unsupported feature from the release documents and remove the command from the interface config mode
FED3_MPLS_ERRMSG-4-MPLS_L2VPN_ATOM_DISP_PAUSE	4-Warning	Critical limit reached for [chars] resource. MPLS L2VPN ATOM_DISP Create PAUSED.\n	MPLS L2VPN ATOM DISP creations are paused as needed resources(mentioned in error message) are not available so new entries can not be programmed in HW.	INVALID	Find out from error messages about the resources that are not available. Verify supported scale for the platform from sdm and reduce the scale accordingly. Capture show platform command for mpls routes summary, tcam utiliztion and resource utilization

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED3_MPLS_ERRMSG-4-MPLS_L2VPN_ATOM_IMP_PAUSE	4-Warning	Critical limit reached for [chars] resource. MPLS L2VPN ATOM_IMP Create PAUSED.\n	MPLS L2VPN ATOM IMP creations are paused as needed resources(mentioned in error message) are not available so new entries can not be programmed in HW.	INVALID	Find out from error messages about the resources that are not available. Verify supported scale for the platform from sdm and reduce the scale accordingly. Capture show platform command for mpls routes summary, tcam utiliztion and resource utilization
FED3_MPLS_ERRMSG-4-MPLS_L2VPN_XCON_AC_PAUSE	4-Warning	Critical limit reached for [chars] resource. MPLS L2VPN XCON_AC Create PAUSED.\n	MPLS L2VPN XCON_AC creations are paused as needed resources(mentioned in error message) are not available so new entries can not be programmed in HW.	INVALID	Find out from error messages about the resources that are not available. Verify supported scale for the platform from sdm and reduce the scale accordingly. Capture show platform command for mpls routes summary, tcam utiliztion and resource utilization

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED3_MPLS_ERRMSG-4-MPLS_LABEL_PAUSE	4-Warning	Critical limit reached for [chars] resource. MPLS Label Create PAUSED.\n	MPLS Label OCE creations are paused as needed resources (mentioned in error message) are not available so new entries can not be programmed in HW.	INVALID	Find out from error messages about the resources that are not available. Verify supported scale for the platform from sdm and reduce the scale accordingly. Capture show platform command for mpls routes summary, tcam utiliztion and resource utilization
FED3_MPLS_ERRMSG-4-MPLS_LENTRY_PAUSE	4-Warning	Critical limit reached for [chars] resource. Lentry Create PAUSED.\n	MPLS Lentry creations are paused as needed resources (mentioned in error message) are not available so new label entries can not be programmed in HW.	INVALID	Find out from error messages about the resources that are not available. Verify supported scale for the platform from sdm and reduce the scale accordingly. Capture show platform command for mpls summary, tcam utiliztion and resource utilization
FED3_MPLS_ERRMSG-4-mpls_out_of_resource	4-Warning	Out of resource for MPLS [chars]. Failed to program [chars] in hardware\n	Running out of Hardware resource to support the scale of this MPLS feature.	INVALID	Verify supported scale for the platform from sdm and reduce the scale accordingly. Capture show platform command for mpls summary, tcam utiliztion and resource utilization

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FED3_MPLS_ERRMSG-6-MPLS_L2VPN_ATOM_DISP_RESUME	6-Information	[chars] resources are now available. MPLS L2VPN ATOM_DISP Create RESUMED.\n	MPLS L2VPN ATOM DISP creations are resumed. Now new entries can be programmed in HW.	INVALID	No action needs to be taken.
FED3_MPLS_ERRMSG-6-MPLS_L2VPN_ATOM_IMP_RESUME	6-Information	[chars] resources are now available. MPLS L2VPN ATOM_IMP Create RESUMED.\n	MPLS L2VPN ATOM IMP creations are resumed. Now new entries can be programmed in HW.	INVALID	No action needs to be taken.
FED3_MPLS_ERRMSG-6-MPLS_L2VPN_XCON_AC_RESUME	6-Information	[chars] resources are now available. MPLS L2VPN XCON_AC Create RESUMED.\n	MPLS L2VPN XCON_AC creations are resumed. Now new entries can be programmed in HW.	INVALID	No action needs to be taken.
FED3_MPLS_ERRMSG-6-MPLS_LABEL_RESUME	6-Information	[chars] resources are now available. MPLS Label Create RESUMED.\n	MPLS Label creations are resumed. Now new entries can be programmed in HW.	INVALID	No action needs to be taken.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED3_MPLS_ERRMSG-6-MPLS_LENTRY_RESUME	6-Information	[chars] resources are now available. Lentry Create RESUMED.\n	MPLS Label entries creations are resumed. Now new label entries can be programmed in HW.	INVALID	No action needs to be taken.
FED3_PUNJECT-6-PKT_CAPTURE_FULL	6-Information	Punject pkt capture buffer is full. Use show command to display the punted packets.\n	All the available punt capture buffers have been written with punted packets.	INVALID	No action is needed.
FED3_PUNJECT_CLI-6-EPDA_NPU_TRAPS_DEBUGGING_WARNING	6-Information	Warning: Please note traps enabled in Enhanced Packet Drop Analyzer (EPDA) will share the counters in Enhanced Drop Detection(EDD) CLI. This will result in showing the same counter values for the trap(s) in EDD\n	When EPDA is enabled the counters will be shared by EDD while displaying EDD counters	INVALID	No action is needed.
FED3_PUNJECT_CLI-6-EPDA_TM_TRAPS_DEBUGGING_WARNING	6-Information	Warning: Enabling TM traps will affect Per VOQ counters. Please clear TM traps once drop-capture is completed\n	Enabling TM traps will affect per voq counters	INVALID	No action is needed.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED3_QOS_ERRMSG-3-FED3_SERVICE_POLICY_FAILED	3-Error	Failed to apply service-policy.\n	An error occurred during service-policy installation in FED.	pangea-qos	Need to find the info from logs. Use "sh platform software trace message fed active" to find the logs
FED3_QOS_ERRMSG-3-FED3_SERVICE_POLICY_FAILED_PREVIOUSLY	3-Error	The policy [chars] on interface [chars] on [chars] direction is already in ERROR state. No action will be taken.\n	There was an error occured early. No further action is taken until the policy removed and reattached.	pangea-qos	Remove the policy from the interface and reattach.
FED3_VLAN_MAPPING_ERRMSG-3-MAPPING_HW_ERROR	3-Error	Failed to update VLAN_MAPPING in hardware for interface [chars].\n	An error occurs when mapping VLAN.	polaris-l2	The resource limit would have been reached, remove the recent added vlan mapping configuration
FED3_VLAN_MAPPING_ERRMSG-3-VP_HW_ERROR	3-Error	Failed to add VP in hardware for interface [chars].\n	An error occurs when adding VP	polaris-l2	VP limit would have been reached, please remove the recent configuration
FED_CCK_ERRMSG-4-INCONSISTENCY_FOUND	4-Warning	Consistency Checker(CCK) detected inconsistency for [chars]. Check 'show consistency run-id [dec] detail'.	CCK has detected the inconsistency between the IOSD and fmanFP tables.	INVALID	Find out the entry using the show consistency <> command
FED_COND_DEBUG-6-COND_DEBUG_BOTH_V4_V6_ADDR_SET	6-Information	Failed to start, both v4 & v6 addr is set	Packet trace failed to start	platform_mgr	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_COND_DEBUG-6-COND_DEBUG_INVALID_IN_FILE	6-Information	Failed to start, invalid file, not found	Packet trace failed to start	platform_mgr	No action is required
FED_COND_DEBUG-6-COND_DEBUG_INVALID_PORT	6-Information	Failed to start, invalid Port, not found	Packet trace failed to start	platform_mgr	No action is required
FED_COND_DEBUG-6-COND_DEBUG_INVALID_SWITCH	6-Information	Failed to start, invalid Switch, not found	Packet trace failed to start	platform_mgr	No action is required
FED_COND_DEBUG-6-COND_DEBUG_MAC_NOT_SET	6-Information	Failed to start, for simulation packet generation src/dst mac is must	Packet trace failed to start	platform_mgr	No action is required
FED_COND_DEBUG6COND_DEBUG_MEMORY_ALLOC_FAIL	6-Information	Failed to start, memory allocation failed	Packet trace failed to start	platform_mgr	No action is required
FED_COND_DEBUG-6-COND_DEBUG_MULTIPLE_ACES	6-Information	Multiple entries found in provided ACL, common fields will get overlapped by later entries	Warning for acl having multiple aces	platform_mgr	No action is required
FED_COND_DEBUG6COND_DEBUG_NETWROK_PREFIX_NOT_SUPORTED	6-Information	Failed to start, simulation needs full address, netwrok prefix not supported	Packet trace failed to start	platform_mgr	No action is required
FED_COND_DEBUG6COND_DEBUG_SRC_AND_DST_ADDR_NOT_SET	6-Information	Failed to start, both src and dst addr is required	Packet trace failed to start	platform_mgr	No action is required
FED_COND_DEBUG-6-COND_DEBUG_START_FAIL	6-Information	Failed to start trace	Packet trace failed to start	platform_mgr	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_FNF_ERRMSG-3-ADVBASEATTACHERROR	3-Error	Unable to attach flow monitor or IP NBAR/Et-analytics to interface [chars]. Flow monitor and IP NBAR/Et-analytics are not allowed on the same interface.	The requested configuration is not allowed.	platform_mgr	Please try to modify your configuration.
FED_FNF_ERRMSG-3-ATTACHERROR	3-Error	Failed to attach flow monitor to interface [chars].\n	An error occurs when attaching the flow monitor to the interface.	platform_mgr	Find out more about the error by using show mgmt-infra trace messages fed-fnf-config-error switch number command
FED_FNF_ERRMSG-3-DETACHERROR	3-Error	Failed to detach flow monitor from interface [chars]\n	Error occurs when detaching the flow monitor from the interface.	platform_mgr	Find out more about the error by using show mgmt-infra trace messages fed-fnf-config-error switch number command
FED_FNF_ERRMSG-3-FLOWMONITOR_ENABLEERROR	3-Error	'[chars]' enablement failed due to '[chars]' configuration present on interface [chars]. These features cannot co-exist.	The requested configuration is not allowed.	platform_mgr	Please try to modify your configuration.
FED_FNF_ERRMSG-3-REFMONITOR_ENABLEERROR	3-Error	Failed to enable [chars] [chars] Reflexive ACL on [chars] and traffic will be dropped; '[chars]' configuration present on interface.	The requested configuration is not allowed.	platform_mgr	Please try to modify your configuration.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
FED_FNF_ERRMSG-3-REFMONITOR_FAILED	3-Error	Failed to enable [chars] [chars] Reflexive ACL on [chars] and traffic will be dropped; Netflow programming failed.	The requested configuration failed; traffic will be dropped on this interface.	platform_mgr	Find out more about the error with the help of FED logs
FED_FNF_ERRMSG-3-REFMONITOR_RSCFULL	3-Error	Failed to enable [chars] [chars] Reflexive ACL on [chars] and traffic will be dropped; Netflow profiles exhausted.	The requested configuration failed; traffic will be dropped on this interface.	platform_mgr	Remove the existing FNF/FNF based feature attachment and retry
FED_FNF_ERRMSG-3-SGTCATTACHERROR	3-Error	Detach the existing [chars] before attaching [chars] to interface [chars]. These features cannot co-exist.	The requested configuration is not allowed.	platform_mgr	Please try to modify your configuration.
FED_FNF_ERRMSG-6-NOTALLOWED	6-Information	[chars] is not allowed.\n	The requested configuration is not allowed.	platform_mgr	Please try to modify your configuration.
FED_FNF_ERRMSG-6-UNSUPPORTED	6-Information	[chars] is unsupported\n	The requested configuration is not supported.	platform_mgr	Please do not use the current configuration.
FED_IPC_MSG-5-FAST_RELOAD_COMPLETE	5-Notice	Fast reload operation complete	This is used to indicate that the fast reload is complete.	accsw-p-fsu	No action needed. This is not an error.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FED_IPC_MSG-5-xFSU_COMPLETE	5-Notice	Fast reload operation complete	This is used to indicate that the fast reload is complete.	accsw-p-fsu	No action needed. This is not an error.
FED_IPC_MSG-5-xFSU_NIF_DISABLE_START_TIME	5-Notice	NIF was DISABLED at [chars]	XFSU NIF Disable Timestamp	accsw-p-fsu	No action needed. This is not an error.
FED_IPC_MSG-5-xFSU_NIF_ENABLE_START_TIME	5-Notice	NIF was ENABLED at [chars]	XFSU NIF ENABLE Timestamp	accsw-p-fsu	No action needed. This is not an error.
FED_IPC_MSG-5-xFSU_NIF_UPGRADE_TIME	5-Notice	NIF UPGRADE took [dec] milliseconds	XFSU NIF UPGRADE Time	accsw-p-fsu	No action needed. This is not an error.
FED_L2M_ERRMSG-3-COLLISION_LIST_RSRC_ERR	3-Error	Failed to allocate hardware resource for group [chars] - reason: [chars] - entry collided with groups: [chars] in hash	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_L2M_ERRMSG-3-RSRC_ERR	3-Error	Failed to allocate hardware resource for group [chars] - resource type: [chars] - reason: [chars]	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_L2M_ERRMSG-3-VLAN_RSRC_ERR	3-Error	Failed to allocate hardware resource for vlan [dec] - resource type: [chars] - reason: [chars]	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_L3M_ERRMSG-3-RSRC_ERR	3-Error	Failed to allocate hardware resource for [chars] - rc:[chars]	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_L3M_ERRMSG-4-lsm_LB_warning	4-Warning	IGP load balance not supported for Label Switch Multicast. Configure 'no mpls mldp forward recursive' to disable	MPLS IGP load balance ECMP is not supported. Entries will be put into retry and once user disables the ECMP via CLI, LSM will recover	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_L3M_ERRMSG-4-lsm_RSRC_ERR	4-Warning	Failed to allocate the hardware resource for LSM(Label Switch multicast) entry, LSM replication will be impacted	Hardware resource allocation has failed and the entry will not be programmed. Entry will be in retry queue waiting for resources, once available LSM will recover	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_L3M_ERRMSG-4-lsm_label_warning	4-Warning	MPLS label range from [dec] to [dec] is not supported with Label Switch Multicast (LSM). Reconfigure 'mpls label range' accordingly.	MPLS range of upper 4k from 1M supported protocal value is reserved for LSM to use internally.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_L3M_ERRMSG-4-lspvif_RSRC_ERR	4-Warning	Failed to allocate the hardware resource for Lspvif Adjacency, some of the LSM MDTs will be impacted	Hardware resource allocation has failed and the entry will not be programmed. Entry will be in retry queue waiting for resources, once available LSM MDTs will recover	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_L3M_ERRMSG-6-lsm_RSRC_ERR_recovered	6-Information	Failed LSM hardware resources recovered. LSM replication will be operational again	Hardware resource failure is recovered again and LSM(Label Switch Multicast) will be back to normal	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_L3M_ERRMSG-6-lspvif_RSRC_ERR_recovered	6-Information	Retry of Lspvif Adjacency hardware resource(s) is(are) successful, LSM MDTs will be operational again	Hardware resource failure is recovered again and LSM(Label Switch Multicast) will be back to normal	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FED_L3_ERRMSG-3-L3_FIB_ENTRY_PAUSE	3-Error	Critical limit reached for [chars] resource. L3 FIB Entry Create PAUSED.\n	L3 FIB Entry creations are paused as needed resource(mentioned in error message) are not available so new entries can not be programmed in HW.	INVALID	Find out from error messages about the resources that are not available. Verify supported scale for the platform from sdm and reduce the scale accordingly. Capture show platform command for l3 routes summary, tcam utiliztion and resource utilization
FED_L3_ERRMSG-3-L3_FIB_ENTRY_RESUME	3-Error	[chars] resources are now available. L3 FIB Entry Create RESUMED.\n	L3 FIB Entry creations are resumed. Now new entries can be programmed in HW.	INVALID	No action needs to be taken.
FED_L3_ERRMSG-3-MAX_TUNNEL	3-Error	The maximum number of Tunnel has been reached\n	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	New Tunnels will not be working as expected.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_L3_ERRMSG-3-MPLS_LABEL_PAUSE	3-Error	Critical limit reached for [chars] resource. MPLS Label Create PAUSED.\n	MPLS Label OCE creations are paused as needed resources(mentioned in error message) are not available so new entries can not be programmed in HW.	INVALID	Find out from error messages about the resources that are not available. Verify supported scale for the platform from sdm and reduce the scale accordingly. Capture show platform command for mpls routes summary, tcam utiliztion and resource utilization
FED_L3_ERRMSG-3-MPLS_LABEL_RESUME	3-Error	[chars] resources are now available. MPLS Label Create RESUMED.\n	MPLS Label creations are resumed. Now new entries can be programmed in HW.	INVALID	No action needs to be taken.
FED_L3_ERRMSG-3-MPLS_LENTRY_PAUSE	3-Error	Critical limit reached for [chars] resource. Lentry Create PAUSED.\n	MPLS Lentry creations are paused as needed resources(mentioned in error message) are not available so new label entries can not be programmed in HW.	INVALID	Find out from error messages about the resources that are not available. Verify supported scale for the platform from sdm and reduce the scale accordingly. Capture show platform command for mpls summary, tcam utiliztion and resource utilization

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_L3_ERRMSG-3-MPLS_LENTRY_RESUME	3-Error	[chars] resources are now available. Lentry Create RESUMED.\n	MPLS Label entries creations are resumed. Now new label entries can be programmed in HW.	INVALID	No action needs to be taken.
FED_L3_ERRMSG-3-RSRC_ERR	3-Error	Failed to allocate hardware resource for [chars] - rc:[dec]	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_L3_ERRMSG-3-RSRC_L3_LE_ERR	3-Error	Interface [chars] creation failed due to L3 Interface hardware resource exhaustion	Hardware resource for L3 Interface exhausted and the requested interface will not be created.	INVALID	Collect output of show platform hardware fed switch <switch number> fwd-asic resource utilization command. Check if RSC_L3IF_LE has exhausted. If yes, free up any unused L3 Interfaces by doing no interface <interface> and retry creating the failed interface.
FED_L3_ERRMSG-3-UNSUPPORTED_CMD	3-Error	[chars] is not supported on the interface [chars]\n	The specified cli is not yet supported.	INVALID	Find out more about this unsupported feature from the release documents and remove the command from the interface config mode

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_L3_ERRMSG-3-ecr_err	3-Error	Platform unicast routing ecr module encountered [chars] error in FED\n	An error occurred in platform ecr code.	INVALID	Find out more about this error by using the show platform ipunicast ecr commands.
FED_L3_ERRMSG-3-fib_err	3-Error	Platform unicast routing fib module encountered [chars] error in FED\n	An error occurred in platform fib code.	INVALID	Find out more about this error by using the show platform ipunicast route commands.
FED_L3_ERRMSG-3-intf_err	3-Error	[chars] interface [chars]\n	Error in HW programming for Interface.	INVALID	Find out more about this failure from ifm show outputs and debugs for the interface
FED_L3_ERRMSG-3-mpls_ecmp_modify_err	3-Error	MPLS Load Balance modify is not supported [dec]\n	Modification of an ECMP object with MPLS Adjacencies is not supported yet. It is not an expected event	INVALID	Find out more about this error by using the show commands for the specified object and identify the possible trigger for the modify.
FED_L3_ERRMSG-3-mpls_out_of_resource	3-Error	Out of resource for MPLS [chars]. Failed to program [chars] in hardware\n	Running out of Hardware resource to support the scale of this MPLS feature.	INVALID	Verify supported scale for the platform from sdm and reduce the scale accordingly. Capture show platform command for mpls summary, tcam utiliztion and resource utilization

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FED_L3_ERRMSG-3-mpls_recursive_label_err	3-Error	Unsupported recursive MPLS label for local_label [dec] [chars]\n	The specified MPLS local label is recursive and is not yet supported.	INVALID	Find out more about this error by using the show commands for the specified local_label and modify the config using LDP filters to remove recursive labels.
FED_L3_ERRMSG-3-mpls_unsupported_feature	3-Error	Unsupported feature. Failed to program. [chars] in software or hardware\n	The feature is not yet supported.	INVALID	Find out more about this unsupported feature from the release documents and remove the command from the interface config mode
FED_L3_ERRMSG-3-pbr_err	3-Error	Platform unicast routing pbr module encountered [chars] error in FED\n	An error occurred in platform pbr code.	INVALID	Find out more about this error by using the show platform ipunicast policy commands
FED_L3_ERRMSG-3-wccp_err	3-Error	Platform unicast routing wccp module encountered [chars] error in FED\n	An error occurred in platform wccp code.	INVALID	Find out more about this error by using the show platform ipunicast wccp commands.
FED_PM-3-FRU_SWITCH_TIMEOUT	3-Error	Transeiver update timed out. Remove and re-insert all FRUs in this switch to recover.\n	An FRU update event took too long to process on this switch. The FRUs on this switch may not be recoginized or function properly after this.	polaris-l2	Remove and re-insert all FRUs on this switch. The system should recognize and process them correctly after that.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_PM-3-FRU_TIMEOUT	3-Error	FRU module [dec] bringup timed out. Remove and re-insert it to recover.\n	The given FRU module in the switch in question could not be recognized because it took too long do so.	polaris-l2	Remove and re-insert the specified FRU module. The system should recognize it correctly after that.
FED_PM-3-FRU_TRANSCEIVER_TIMEOUT	3-Error	Transceiver event handling for interface [chars] timed out. Remove and re-insert the FRU module containing this interface to recover.\n	Than handling onf a transceiver event took too long for the given interface.	polaris-l2	Remove and re-insert the FRU module containing this interface. The system should recover from this failure condition after that.
FED_PM-3-HW_ERROR	3-Error	Port Manager error -[chars] hardware update failed.\n	An error occurred in Port Manager code.	polaris-l2	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_PM-3-RESRC_ERROR	3-Error	Port Manager error -[chars] resource access failed.\n	An error occurred in Port Manager code.	polaris-l2	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_PTP_ERRMSG-3-ATTACHERROR	3-Error	Failed to run PTP [chars].\n	An error occurs when running PTP.	platform_mgr	Find out more about the error by using show mgmt-infra trace messages fed-ptp-config-error switch number command
FED_PTP_ERRMSG-3-DETACHERROR	3-Error	Failed to run PTP [chars]\n	Error occurs when running PTP.	platform_mgr	Find out more about the error by using show mgmt-infra trace messages fed-ptp-config-error switch number command
FED_PTP_ERRMSG-6-NOTALLOWED	6-Information	[chars] is not allowed.\n	The requested configuration is not allowed.	platform_mgr	Please try to modify your configuration.
FED_PTP_ERRMSG-6-UNSUPPORTED	6-Information	[chars] is unsupported\n	The requested configuration is not supported.	platform_mgr	Please do not use the current configuration.
FED_PUNJECT-6-PKT_CAPTURE_FULL	6-Information	Punject pkt capture buffer is full. Use show command to display the punted packets.\n	All the available punt capture buffers have been written with punted packets.	INVALID	No action is needed.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FED_QOS_ERRMSG-3-AFD_POLICER_HW_ERROR	3-Error	Failed to [chars] for [chars].\n	An error occurred in programming the Approximate Fair Dropping policer.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_QOS_ERRMSG-3-AFD_QUEUE_HW_ERROR	3-Error	Failed to program AFD [chars] virtual queue for [chars].\n	An error occurred in programming the Approximate Fair Dropping virtual queue.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_QOS_ERRMSG-3-LABEL_2_QUEUE_MAPPING_HW_ERROR	3-Error	Failed to [chars] for [chars]: code [dec].\n	An error occurred in programming label to queue map.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FED_QOS_ERRMSG-3-NETFLOW_TABLE_HW_ERROR	3-Error	Failed to program netflow entries for policy-map [chars] for client mac:[chars] iifid:0x%llx. code:[dec].\n	An error occurred in programming netflow table.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_QOS_ERRMSG-3-POLICER_HW_ERROR	3-Error	Failed to [chars] for [chars]: code [dec].\n	An error occurred in programming the policer.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_QOS_ERRMSG-3-POLICER_MAP_HW_ERROR	3-Error	Failed to [chars] for [chars]: code [dec].\n	An error occurred in programming the policer map.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
FED_QOS_ERRMSG-3-QUEUE_BUFFER_HW_ERROR	3-Error	Failed to [chars] for [chars]: code [dec].\n	An error occurred when programming the queue buffer.	INVALID	Find out more about the error by using the show tech-support priveleged EXEC command 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.
FED_QOS_ERRMSG-3-QUEUE_SCHEDULER_HW_ERROR	3-Error	Failed to [chars] for [chars]: code [dec].\n	An error occurred when programming the queue scheduler.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_QOS_ERRMSG-3-TABLEMAP_EGRESS_HW_ERROR	3-Error	Failed to [chars] for [chars]: code [dec].\n	An error occurred when programming egress table-map to hardware.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_QOS_ERRMSG-3-TABLEMAP_INGRESS_HW_ERROR	3-Error	Failed to [chars] for [chars]: code [dec].\n	An error occurred when programming ingress table-map to hardware.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_QOS_ERRMSG-3-TABLEMAP_INIT_ERROR	3-Error	Failed to initialize [chars].\n	An error occurred during table-map initialization.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
FED_QOS_ERRMSG-4-APPLICATION_ID_OVERFLOW	4-Warning	Failed to allocate application ID for policy-map [chars] on [chars].\n	The application IDs are exhausted.	INVALID	Reduce the number of applications to make application ID available.
FED_QOS_ERRMSG-4-CONFIGURE_PORT_TYPE_HW_ERROR	4-Warning	Failed to configure port [chars] as [chars] port in hardare. rc:[dec].\n	The port could not be configured in hardware	INVALID	Try to shutdown the port and then unshut the port
FED_QOS_ERRMSG-4-LABEL_2_QUEUE_MAPPING_OVERFLOW	4-Warning	Failed to [chars]. No more queue-maps are available.\n	The system supports up to 8 queue-maps. This limit has been reached.	INVALID	Unconfigure some of the queuing policies to make the resource available.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_QOS_ERRMSG-4-NETFLOW_TABLE_OVERFLOW	4-Warning	Failed to program netflow entries for policy-map [chars] for client mac:[chars] iifid:0x%llx. No netflow resource is available.\n	The netflow resources are exhausted.	INVALID	Unconfigure features to make the netflow resource available.
FED_QOS_ERRMSG-4-OUTPUT_ACS_CLIENT_POLICY_ERROR	4-Warning	Unsupported output client policy([chars]).\n	Unsupported policy.	INVALID	Unsupported client output policy
FED_QOS_ERRMSG-4-OUTPUT_CLIENT_POLICY_ERROR	4-Warning	Unsupported output client policy([chars]) - range operators.\n	Unsupported policy.	INVALID	Range operators are not supported in client output policy
FED_QOS_ERRMSG-4-POLICER_MAP_TABLE_OVERFLOW	4-Warning	Failed to [chars] for [chars]. No more policer map tables are available.\n	The ASIC supports up to 64 policer map tables. This limit has been reached.	INVALID	Unconfigure some policer maps to make the resource available.
FED_QOS_ERRMSG-4-POLICER_OVERFLOW	4-Warning	Failed to [chars] for [chars]. No policer resource is available.\n	The policer resource limit has been reached.	INVALID	Unconfigure some policers to make the resource available.
FED_QOS_ERRMSG-4-STACK_BUFFER_CONFIG_MGIG	4-Warning	Detected stack-buffer disable ([dec]), which is not a supported configuration for mGig platforms. Change to 'stack-buffer enable' configuration.\n	The stack-buffer configuration for an mGig switch should always remain as enabled.	INVALID	Change the configuration back as stack-buffer enable

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_QOS_ERRMSG-4-TABLEMAP_OVERFLOW	4-Warning	Failed to attach [chars]. No more table-maps are available.\n	The system supports up to 16 table-maps per direction. This limit has been reached.	INVALID	Unconfigure some of the table-maps to make the resource available.
FED_QOS_ERRMSG-4-TCAM_OVERFLOW	4-Warning	Failed to program TCAM for policy-map [chars] on [chars].\n	The TCAM resources are exhausted.	INVALID	Unconfigure features to make TCAM resources available.
FED_ROT-4-FIRMWARE_UPGRADE	4-Warning	The RoT eSPI firmware for ASIC [dec] has been successfully upgraded. Will take effect after reload	The NPU RoT eSPI firmware has been successfully upgraded. New firmware will take effect after next reload	platform_mgr	No action is required
FED_ROT-4-VALIDATION_FAILURE	4-Warning	The RoT Validation for ASIC [dec] has failed because [chars]	The NPU RoT validation has failed. This could be due to a hardware or software defect. This is a critical error. NPU will stop forwarding traffic	platform_mgr	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_SPAN_ERRMSG-3-UNSUPPORTED_CONFIG	3-Error	SPAN configuration for source is not supported [chars] \n	A failure occurred in platform SPAN Source prgm	polaris-l2	This failure occurs with SPAN Src (port, Vlan) is part of a different SPAN session and is being reprogrammed again
FED_SPAN_ERRMSG-3-fspan_hw_update_err	3-Error	Platform FSPAN encountered an error in FED - [chars]\n	An error occurred in platform FSPAN code.	polaris-l2	Collect output of hardware tables/registers related to FSPAN and details of related ASIC resource handles.
FED_SPAN_ERRMSG-3-sess_rc	3-Error	Platform SPAN encountered an update error in FED - [chars], session [dec], return code [dec].\n	An error occurred in platform update SPAN code.	polaris-l2	Collect the output of debug platform monitor-fed while configuring SPAN or FSPAN.
FED_SPAN_ERRMSG-3-span_gen_hw_update_err	3-Error	Platform SPAN encountered an error in FED - [chars].\n	An error occurred in platform SPAN code.	polaris-l2	Collect the output of debug platform monitor-fed command while configuring SPAN or FSPAN.
FED_SPAN_ERRMSG-3-span_hw_update_err	3-Error	Platform SPAN encountered an error in FED - [chars]\n	An error occurred in platform SPAN code.	polaris-l2	Collect output of hardware tables and registers related to SPAN and details of related ASIC resource handles.
FED_SPAN_ERRMSG-3-span_stp_status_update_err	3-Error	Platform SPAN encountered an error in FED - [chars]\n	An error occurred in platform SPAN code for STP state updates in ASIC.	polaris-l2	Collect output of hardware tables and registers related to FSPAN and details of related ASIC resource handles.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_SRVO_ERRMSG-3-ATTACHERROR	3-Error	Failed to run SRVO [chars].\n	An error occurs when running SRVO.	platform_mgr	Find out more about the error by using show mgmt-infra trace messages fed-srvo-config-error switch number command
FED_SRVO_ERRMSG-3-DETACHERROR	3-Error	Failed to run SRVO [chars]\n	Error occurs when running SRVO.	platform_mgr	Find out more about the error by using show mgmt-infra trace messages fed-srvo-config-error switch number command
FED_SRVO_ERRMSG-6-NOTALLOWED	6-Information	[chars] is not allowed.\n	The requested configuration is not allowed.	platform_mgr	Please try to modify your configuration.
FED_SRVO_ERRMSG-6-UNSUPPORTED	6-Information	[chars] is unsupported\n	The requested configuration is not supported.	platform_mgr	Please do not use the current configuration.
FED_STATS-6-MEMORY_PARITY_ERR	6-Information	Detected memory parity errors on ASIC INST([dec])\n	Memory parity errors reached threshold.	ios-chassis_mgr	If this message occurs, customer needs to reach out to TAC. TAC will collect and review the output of \'show logging onboard switch active message detail\'. If there are so many single-parity memory errors (>=1000 in 24 hours). TAC may ask the switch to be reloaded or RMAed.
FED_STP_ERRMSG-3-MAX_INSTANCES	3-Error	The maximum number of STP instances has been reached:[dec]	The maximum number of STP instances that can be programmed has been reached.	INVALID	Delete or resolve loops manually for the vlans created further.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FED_VLAN_TRANSLATE_ERRMSG-3-ATTACHERROR	3-Error	Failed to run VLAN_TRANSLATE [chars].\n	An error occurs when running VLAN_TRANSLATE	platform_mgr	Find out more about the error by using show mgmt-infra trace messages fed-vlan_translate-config-error switch number command
FED_VLAN_TRANSLATE_ERRMSG-3-DETACHERROR	3-Error	Failed to run VLAN_TRANSLATE [chars]\n	Error occurs when running VLAN_TRANSLATE	platform_mgr	Find out more about the error by using show mgmt-infra trace messages fed-vlan_translate-config-error switch number command
FED_VLAN_TRANSLATE_ERRMSG-6-NOTALLOWED	6-Information	[chars] is not allowed.\n	The requested configuration is not allowed.	platform_mgr	Please try to modify your configuration.
FED_VLAN_TRANSLATE_ERRMSG-6-UNSUPPORTED	6-Information	[chars] is unsupported\n	The requested configuration is not supported.	platform_mgr	Please do not use the current configuration.
FED_XCVR_MSG-3-BO_FAILED	3-Error	[dec] [dec] break out failed	New BO command might have entered too fast or Deactivation taking time to clean feature objects	polaris-l2	Likely IOS and FED might be out of state, reload to use BO ports

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_XCVR_MSG-3-BO_NOT_FINISHED	3-Error	[dec] [dec] previous breakout command not yet finished, wait for completion message	New BO command might have entered too fast or Deactivation taking time to clean feature objects	polaris-l2	Likely IOS and FED might be out of state, reload to use BO ports
FED_XCVR_MSG-3-BO_SUCCESSFUL	3-Error	[dec] [dec] break out successful	New BO command might have entered too fast or Deactivation taking time to clean feature objects	polaris-l2	Likely IOS and FED might be out of state, reload to use BO ports
FED_XCVR_MSG-3-CABLE_AUTH_FAILED	3-Error	*** Stack cable authentication failed for cable inserted on stack port [dec] on switch [dec] ***	Stack Cable authentication failed on the switch	polaris-l2	Fed would have crashed, remove the stack cable inserted in the mentioned port and cross check
FED_XCVR_MSG-3-CABLE_AUTH_FAILED_RELOAD	3-Error	Reloading chassis because cable auth failed on stack_port [dec]	Stack Cable authentication failed on the switch	polaris-l2	Fed would have crashed, remove the stack cable inserted in the mentioned port and cross check
FED_XCVR_MSG-3-NO_BO_SUCCESSFUL	3-Error	[dec] [dec] no break out successful	New BO command might have entered too fast or Deactivation taking time to clean feature objects	polaris-l2	Likely IOS and FED might be out of state, reload to use BO ports

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
FED_XCVR_MSG-3-NO_PG_SUCCESSFUL	3-Error	Slot [dec] Portgroup [dec] No Portgroup Successful	New PG command might have entered too fast or Deactivation taking time to clean feature objects	polaris-l2	Likely IOS and FED might be out of state, reload to use PG ports
FED_XCVR_MSG-3-PG_FAILED	3-Error	Slot [dec] Portgroup [dec] Failed	New PG command might have entered too fast or Deactivation taking time to clean feature objects	polaris-l2	Likely IOS and FED might be out of state, reload to use PG ports
FED_XCVR_MSG-3-PG_SUCCESSFUL	3-Error	Slot [dec] Portgroup [dec] Successful	New PG command might have entered too fast or Deactivation taking time to clean feature objects	polaris-l2	Likely IOS and FED might be out of state, reload to use PG ports

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FED_XCVR_MSG-3-SPEED_MISMATCH	3-Error	[chars] are operating in different speeds, Ports in each port-group should operate in same speed. Please make sure that both the ports operate in same speed. Alternatively, Configure hw-module slot <> port-group <> select <speed>, shut and no shut preferred interface to use specific port in the port-group. This config is not supported if any of the ports in port-group is inserted with dual-rate optics.	The ports in port-group should be of the same speed for all ports to function	polaris-l2	Enter hw-module slot <> port-group <> select <speed>,followed by\n shut and no shut of interface to use a specific port.
FILTER-3-EWLC_APFILTER_REGEX_CREATE_ERR	3-Error	Error in [chars]	APFilter regular expression error	iosxe-bmcs-utils	Recreate regular expression correctly
FILTER-3-EWLC_GEN_ERR	3-Error	Error in [chars]	General Wireless LAN Controller Error Message.	iosxe-bmcs-utils	LOG_STD_ACTION
FILTER-4-EWLC_APFILTER_PRIORITY_UPDATE_WARN	4-Warning	Warning: [chars]	APfilter priorities are overridden, old filter will be invalid	iosxe-bmcs-utils	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FILTER_BINARY_NOTIFICATION-5-MERGE_COMPLETED	5-Notice	Merged logs generation completed.	Notification to user that merged logs are generated	iosxe-binos-utils	Go to bootflash and view the merged logs
FIRMWARE-5-INSTALL_STATUS	5-Notice	Firmware install stage: [chars], install-id: [chars], message: [chars]	This syslog is generated during firmware installation which goes through multiple steps	lte-fw	No action is required
FIRMWARE-6-INSTALL_STATUS	6-Information	Firmware install stage: [chars], install-id: [chars], message: [chars]	This syslog is generated during firmware installation which goes through multiple steps	lte-fw	No action is required

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
FLASH_CHECK-3-DISK_QUOTA	3-Error	[chars] quota exceeded [free space is [dec] kB] - [recommended free space is [dec] kB] - Please clean up files on [chars].	The remaining free space on the disk is below the recommended threshold of at least 30 percent of the installed disk device space. This limits the system from core files necessary to root cause critical system faults. The disk device is bootflash or harddisk.	iosxe-binos-utils	Please remove unneeded files from the disk device. Any core files under the core directory should be reported and then deleted.
FLASH_CHECK-3-FLASH_ISSUE	3-Error	Detected Flash issues. Please issue the [chars] command at your earliest convenience.	eUSB failure is detected, flash partitions may be inaccessible.	iosxe-binos-utils	Please issue the cli command shown in the error message.
FLASH_CHECK-3-FLASH_RECOVERY	3-Error	Detected Flash issues. Proceeding with [chars] soft-error recovery.	eUSB failure is detected, which prevents access of flash partitions.	iosxe-binos-utils	No action required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FLASH_CHECK-3-RESET_FAIL	3-Error	Flash recovery failed. Please issue the reload slot <#> command at your earliest convenience.	An attempted flash recovery has failed. Switch needs to be manually reloaded	ios-ha-subsys	No action required
FLASH_CHECK-3-RESET_SUCCESS	3-Error	Flash recovery was successful.	An attempted flash recovery was successful.	ios-ha-subsys	No action required
FMANFP-3-CRYPTO_DEVICE_REQUEST_FAILED	3-Error	Crypto-device is busy processing last request. This request will be discarded	Crypto-device is still processing previous reload reqeust or still processing crypto feature packets. New request will not be applied	INVALID	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FMANFP-3-CRYPTO_LICENSE_THPUT_MAX_APPROACHED	3-Error	Average crypto throughput rate approached the licensed crypto bandwidth of [dec] bps during [dec] sampling periods in the last 24 hours, sampling period is [dec] seconds	To monitor crypto throughput and, to generate notification/warning if the average throuput utilization over a longer time are approaching or exceeding the cypro licensed bandwidth	iosxe-csl	LOG_STD_NO_ACTION
FMANFP-3-CRYPTO_LICENSE_THPUT_THRESHOLD_EXCEED	3-Error	Average crypto throughput rate exceeded [dec] percent of licensed crypto bandwidth of [dec] bps during [dec] sampling periods in the last 24 hours, sampling period is [dec] seconds	To monitor crypto throughput and, to generate notification/warning if the average throuput utilization over a longer time are approaching or exceeding the cypro licensed bandwidth	iosxe-csl	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FMANFP-3-LICENSE_THPUT_INVALID	3-Error	Invalid throughput [dec]kbps	The throughput value is invalid. The forwarding engine will not operate at the throughput value.	iosxe-csl	LOG_STD_DDTS_TAC_DETAILS
FMANFP-3-REFGRP_ENTRY_LIMIT_EXCEED	3-Error	Reflexive group [chars]([dec]) exceeded limitation of [dec] entries. Reflexive functionality is not supported for this ACE, please remove it.	A software limitation has been exceeded.	INVALID	LOG_STD_NO_ACTION
FMANFP-3-REFGRP_LIMIT_EXCEED	3-Error	Number of reflexive group exceeded limitation of [dec]. Reflexive functionality is not supported for this ACE, please remove it.	A software limitation has been exceeded.	INVALID	LOG_STD_NO_ACTION
FMANFP-3-REF_ACE_IDX_LIMIT_EXCEED	3-Error	Reflexive group [chars]([dec]) ACE index([dec]) exceeded limitation of [dec]. Reflexive functionality is not supported for this ACE, please remove it.	A software limitation has been exceeded.	INVALID	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FMANFP-3-REF_ACL_IDX_LIMIT_EXCEED	3-Error	Reflexive group [chars]([dec]) ACL index([dec]) exceeded limitation of [dec]. Reflexive functionality is not supported for this ACL, please remove it.	A software limitation has been exceeded.	INVALID	LOG_STD_NO_ACTION
FMANFP-6-CRYPTO_DEVICE_NOT_PRESENT	6-Information	Hardware crypto-device is not present. Request aborted	Hardware crypto-device is not present on the system. User request doesn't apply or be executed. This may not be an error.	INVALID	LOG_STD_NO_ACTION
FMANFP-6-CRYPTO_DEVICE_REQUEST_COMPLETE	6-Information	Crypto-device is ready to process packets	Crypto-device is load with new core based on user request. Now it is ready to process packets	INVALID	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FMANFP-6-FMANACLLOGMISSMSG	6-Information	access-list logging datapath rate-limited or missed [dec] packet[chars]	Some packet matching logs were missed because the access list log messages were rate-limited or no access list log buffers were available.	INVALID	LOG_STD_NO_ACTION
FMANFP-6-IPACCESSLOGDP	6-Information	list [chars] [chars] [chars] [chars][chars] [chars]-> [chars] ([dec]/[dec]), [dec] packet[chars]	A packet matching the log criteria for the given access list was detected.	INVALID	LOG_STD_NO_ACTION
FMANFP-6-IPACCESSLOGNP	6-Information	list [chars] [chars] [dec] [chars][chars] [chars]-> [chars], [dec] packet[chars]	A packet matching the log criteria for the given access list was detected.	INVALID	LOG_STD_NO_ACTION
FMANFP-6-IPACCESSLOGP	6-Information	list [chars] [chars] [chars] [chars][chars]([dec]) [chars]-> [chars]([dec]), [dec] packet[chars]	A packet matching the log criteria for the given access list was detected.	INVALID	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FMANFP-6-IPACCESSLOGSGDP	6-Information	ingress_interface='[chars]' sgacl_name='[chars]' action='[chars]' protocol='[chars]' src-ip='[chars]' dest-ip='[chars]' type='[dec]' code='[dec]' sgt='[dec]' dgt='[dec]' logging_interval_hits='[dec]'	A packet matching the log criteria for the given access list was detected.	INVALID	LOG_STD_NO_ACTION
FMANFP-6-IPACCESSLOGSGNP	6-Information	ingress_interface='[chars]' sgacl_name='[chars]' action='[chars]' protocol='[dec]' src-ip='[chars]' dest-ip='[chars]' sgt='[dec]' dgt='[dec]' logging_interval_hits='[dec]'	A packet matching the log criteria for the given access list was detected.	INVALID	LOG_STD_NO_ACTION
FMANFP-6-IPACCESSLOGSGP	6-Information	ingress_interface='[chars]' sgacl_name='[chars]' action='[chars]' protocol='[chars]' src-ip='[chars]' src-port='[dec]' dest-ip='[chars]' dest-port='[dec]' sgt='[dec]' dgt='[dec]' logging_interval_hits='[dec]'	A packet matching the log criteria for the given access list was detected.	INVALID	LOG_STD_NO_ACTION
FMANFP-6-IPV6ACCESSLOGDP	6-Information	list [chars] [chars] [chars] [chars][chars] [chars]-> [chars] ([dec]/[dec]), [dec] packet[chars]	A packet matching the log criteria for the given access list was detected.	iosxe-acl	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FMANFP-6-IPV6ACCESSLOGNP	6-Information	list [chars] [chars] [dec] [chars][chars] [chars]-> [chars], [dec] packet[chars]	A packet matching the log criteria for the given access list was detected.	iosxe-acl	LOG_STD_NO_ACTION
FMANFP-6-IPV6ACCESSLOGP	6-Information	list [chars] [chars] [chars] [chars][chars]([dec]) [chars]-> [chars]([dec]), [dec] packet[chars]	A packet matching the log criteria for the given access list was detected.	iosxe-acl	LOG_STD_NO_ACTION
FMANFP-6-IPV6ACCESSLOGSGDP	6-Information	ingress_interface='[chars]' sgacl_name='[chars]' action='[chars]' protocol='[chars]' src-ip='[chars]' dest-ip='[chars]' type='[dec]' code='[dec]' sgt='[dec]' dgt='[dec]' logging_interval_hits='[dec]'	A packet matching the log criteria for the given access list was detected.	INVALID	LOG_STD_NO_ACTION
FMANFP-6-IPV6ACCESSLOGSGNP	6-Information	ingress_interface='[chars]' sgacl_name='[chars]' action='[chars]' protocol='[dec]' src-ip='[chars]' dest-ip='[chars]' sgt='[dec]' dgt='[dec]' logging_interval_hits='[dec]'	A packet matching the log criteria for the given access list was detected.	INVALID	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
FMANFP-6-IPV6ACCESSLOGSGP	6-Information	ingress_interface='[chars]' sgacl_name='[chars]' action='[chars]' protocol='[chars]' src-ip='[chars]' src-port='[dec]' dest-ip='[chars]' dest-port='[dec]' sgt='[dec]' dgt='[dec]' logging_interval_hits='[dec]'	A packet matching the log criteria for the given access list was detected.	INVALID	LOG_STD_NO_ACTION
FMANRP-3-OBJ_DWNLD_TO_FP_FAILED	3-Error	[chars] download to FP failed	An object has failed to download to the forwarding processor (FP)	iosxe-fwdmgr	Examine the process logs to identify the cause for object download failure
FMANRP-3-PEER_IPC_RESET	3-Error	IPC to [chars] has been reset after previous stuck	IPC to a peer has been reset after previous stuck	iosxe-fwdmgr	check if there is any functional impact after recovery
FMANRP-3-PEER_IPC_RESUME	3-Error	IPC to [chars] has returned to normal after previous stuck	IPC to a peer is back to normal after previous stuck	iosxe-fwdmgr	check if there is any functional impact after recovery
FMANRP-3-PEER_IPC_STUCK	3-Error	IPC to [chars] is stuck for more than [dec] seconds	IPC to a peer is stuck, resulting no new messages sent over for a long time	iosxe-fwdmgr	Run show platform peer object-manager rp [active|standby] to confirm that no new messages are sent over the Config IPC

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FMANRP-4-INVALID_CCE_POSITION	4-Warning	Invalid position '[dec]' prevented [chars]	A messaging error has occurred during service-policy modification and the configuration could not be downloaded properly	iosxe-fwdmgr	LOG_STD_DDTS_TAC_DETAILS
FMAN_CAPWAP-3-AP_TUNNEL_CLEANUP_PENDING	3-Error	AP CAPWAP tunnel cleanup is incomplete. [chars]	CAPWAP tunnel delete acknowledgment is not yet received from FMAN FP	ewlc-ap	LOG_STD_ACTION
FMAN_CAPWAP-3-AP_TUNNEL_EXIST	3-Error	AP CAPWAP tunnel plumb failure. [chars]	CAPWAP tunnel plumb failure due to MAC or IFID conflict	ewlc-ap	LOG_STD_ACTION
FMAN_IPSEC_NGWC-3-IPSEC_ANTI_REPLAY_ERR	3-Error	IPSEC (flow id [dec]) receives anti-replay error.	traffic being received is not within the IPSec anti-replay window.	iosxe-fwdmgr	Check the size of anti-replay window configured. Adjust to maximum 256-bits if needed

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FMAN_IPSEC_NGWC-3-IPSEC_CONFIG_FAIL	3-Error	IPSEC fail to configure because [chars].	The IPSEC configuration has failed. This could be due to a hardware/software resource limitation or a software defect.	iosxe-fwdmgr	Check the logs for information. Reconfigure IPSEC
FMAN_IPSEC_NGWC-3-IPSEC_INIT_FAIL	3-Error	IPSEC fail to initialize because [chars].	The IPSEC initialization has failed. This could be due to a hardware/software resource limitation or a software defect.	iosxe-fwdmgr	Check the logs for information. Reboot the system if IPSEC needs to be configured
FMAN_IPSEC_NGWC-3-IPSEC_TTL_NOT_SUPPORT	3-Error	IPSEC tunnel ttl configuration ignored because [chars].	The IPSEC configuration for tunnel ttl value is not supported and therefore has been ignored.	iosxe-fwdmgr	remove tunnel ttl configuration as it is not supported.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FMAN_IPSEC_NGWC-3-IPSEC_TUNNEL_CONFIG_FAIL	3-Error	[chars] SADB [dec] IF_ID [dec]	The IPSEC configuration has failed. This could be due to a hardware/software resource limitation or a software defect.	iosxe-fwdmgr	Check the logs for information. Reconfigure IPSEC
FMFP-3-DP_NOMEM	3-Error	DP not enough memory. [chars]	An object download to DP failed because the memory of DP is not enough.	iosxe-fwdmgr	Run show platform resource to see the memory usage
FMFP-3-INTERFACE_OBJECT_NOT_FOUND	3-Error	Interface object lookup by [chars] not found for interface [dec]	The desired interface object was not found.	iosxe-fwdmgr	Examine the interface state in the operating system, route processor (RP) and forwarding processor (FP) forwarding manager logs.
FMFP-3-OBJ_ACK_FROM_DP_RESUME	3-Error	AOM ack of objects to Data Plane is back to normal	An object ack from lower layer to FMAN-FP has finished after a temporary stuck. It can be caused by incomplete configuration or software defects	iosxe-fwdmgr	check if there is any functional impact after recovery

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FMFP-3-OBJ_ACK_FROM_DP_STUCK	3-Error	AOM ack download to Data Plane is stuck for more than [dec] seconds [chars]	An object ack from lower layer to FMAN-FP has taken long time. It can be caused by incomplete configuration or software defects	iosxe-fwdmgr	Run show platform software object-manager fp [active|standby] [pending-ack-update|pending-ack-batch|pending-ack-commands] sorted <min_pending_time> to see the sorted list of update/ batch/command in pending state for more than the min_pending_time. For incomplete configuration, use show platform platform software object fp [active|standby] resolve to see if there is any resolve object
FMFP-3-OBJ_DWNLD_TO_DP_FAILED	3-Error	[chars] download to DP failed	An object has failed to download to the data plane	iosxe-fwdmgr	Examine the list of error objects in the forwarding processor (FP) forwarding manager asynchronous object logs.
FMFP-3-OBJ_DWNLD_TO_DP_RESUME	3-Error	AOM download of objects to Data Plane is back to normal	An object download from FMAN-FP to lower layer has finished after a temporary stuck. It can be caused by incomplete configuration or software defects	iosxe-fwdmgr	check if there is any functional impact after recovery

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FMFP-3-OBJ_DWNLD_TO_DP_STUCK	3-Error	AOM download to Data Plane is stuck for more than [dec] seconds [chars]	An object download from FMAN-FP to lower layer has taken long time. It can be caused by incomplete configuration or software defects	iosxe-fwdmgr	Run show platform software object-manager fp [active|standby] [pending|issued|batch] sorted <min_pending_time> to see the sorted list of update/batch/ command in pending state for more than the min_pending_time. For incomplete configuration, use show platform platform software object fp [active|standby] resolve to see if there is any resolve object
FMFP_ACL-3-ACL_LIMIT_EXCEEDED	3-Error	ACL [chars] exceeded limitation of [dec] ACEs per ACL	A software limitation has been exceeded.	iosxe-fwdmgr	Reduce the access control list (ACL) configuration. A reboot of the forwarding processor (FP) is recommended.
FMFP_ACL-3-ACL_MODIFY_FAILED	3-Error	ACL:[chars] modification through object group edit failed	Object-group used in the ACL was modified. Those changes could not be accommodated in the ACL	asr1k-acl	Fix the object-group changes. Delete ACL and reconfigure it

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FMFP_ACL-3-ACL_OBJECT_DOWNLOAD	3-Error	[chars][chars] fail to download because [chars].	The access control list (ACL) object has failed to download. This could be due to a hardware or software resource limitation or a software defect.	iosxe-fwdmgr	Check the logs for information on the relevant object download states. Remove the ACL attachment to the interface or delete the ACL. Reboot the forwarding processor (FP).
FMFP_ACL-3-ACL_PROTOCOL_CHECK	3-Error	ACL [chars] protocol does not match what was previously configured	The error occurs for one of two reasons. An access control list (ACL) reference was made to an ACL of a different protocol; or an ACL was added or edited when there were similarly named ACL references of a different protocol	iosxe-fwdmgr	Remove the conflicting ACL or the conflicting ACL references.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
FMFP_ACL-3-OGACL_BINCODE_CHECK	3-Error	[chars] OGACL request failed in bincode check: required bits ([dec]) max available bits ([dec]).	The scaled OGACL failed to download due to the hardware or software resource limitation on bincode.	asr1k-acl	Check the logs for information on the relevant object download states. Remove the OGACL configuration and binding, reduce the scaling and reconfigure it
FMFP_ACL-3-OGACL_PD_RESOURCE	3-Error	[chars] OGACL runs out of PD resources.	The scaled OGACL failed to download due to PD hardware or software resource limitation.	asr1k-acl	Check the logs for information on the relevant object download states. Remove the OGACL configuration and binding, reduce the scaling and reconfigure it
FMFP_ACL-3-SGACL_OBJECT_DOWNLOAD	3-Error	SGACL Cell ([dec] [dec]) policy [chars] fail to download because [chars].	The SGACL policy has failed to download. This could be due to a hardware or software resource limitation or a software defect.	iosxe-fwdmgr	Check the logs for information on the relevant object download states. Remove the SGACL policy for that cell, correct the error and reconfigure it

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FMFP_CCK-4-INCONSISTENCY_FOUND	4-Warning	Consistency Checker(CCK) detected inconsistency for [chars]. Check 'show consistency-checker run-id [dec] detail'.	CCK has detected the inconsistency between the IOSD and fmanFP tables.	iosxe-fwdmgr	Find out the entry using the show consistency-checker <> command
FMFP_CXSC-3-CXSC_DEINITIALIZATION	3-Error	[chars] Returned: [chars]	The CXSC DEINITIALIZATION has FAILED. This could be due to a hardware or software resource limitation or a software defect.	iosxe-cxsc	Check memory usage and router configuration and try to re-activate virtual service again. If it shows the same results then please contact TAC.
FMFP_CXSC-3-CXSC_DOMAIN_CONFIG	3-Error	[chars] Returned: [chars]	The CXSC DOMAIN CONFIG DOWNLOAD has FAILED. This could be due to a hardware or software resource limitation or a software defect.	iosxe-cxsc	Check memory usage and router configuration and try to re-activate virtual service again. If it shows the same results then please contact TAC.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
FMFP_CXSC-3-CXSC_INITIALIZATION	3-Error	[chars] Returned: [chars]	The CXSC INITIALIZATION has FAILED. This could be due to a hardware or software resource limitation or a software defect.	iosxe-cxsc	Check memory usage and router configuration and try to re-activate virtual service again. If it shows the same results then please contact TAC.
FMFP_CXSC-3-CXSC_POLICY_DOWNLOAD	3-Error	[chars] Returned: [chars]	The CXSC POLICY DOWNLOAD has FAILED. This could be due to a hardware or software resource limitation or a software defect.	iosxe-cxsc	Check memory usage and router configuration and try to re-activate virtual service again. If it shows same results then please contact TAC.
FMFP_CXSC-6-CXSC_POLICY_DOWNLOAD_SUCCESS	6-Information	New policy version: [dec] has now been installed and is active	The CXSC POLICY DOWNLOAD of the numbered version has succeeded.	iosxe-cxsc	This an informational message only, no action is required. Note that policy version is not monotonically increasing so there is nothing to be concerned about if the current installed policy version is less than the previous installed policy version.

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
FMFP_QOS-4-QOS_WITHOUT_UPDATING	4-Warning	Warning, Qos download AOM without updating [chars]	qos download aom wihtout updating action.	iosxe-fwdmgr	No action is required.
FMFP_QOS-6-QOS_STATS_PROGRESS	6-Information	statistics are progressing	QoS statistics are now progressing normally. This is an informational message.	iosxe-fwdmgr	No action is required.
FMFP_QOS-6-QOS_STATS_STALLED	6-Information	statistics stalled	QoS statistics are temporarily stalled. This is an informational message.	iosxe-fwdmgr	No action is required.
FMFP_URPF-3-LIST_DOWNLOAD	3-Error	Unicast RPF list [chars] for list [dec] fail to download because [chars].	The unicast reverse path forwarding (URPF) list failed to download. This can be caused by a hardware or software resource limitation or software defect.	iosxe-fwdmgr	Check the logs for information on the relevant download states. Reboot the forwarding processor (FP).

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FMFP_URPF-3-OBJECT_DOWNLOAD	3-Error	Unicast RPF [chars] on inteface [chars] fail to download because [chars].	The unicast reverse path forwarding (URPF) operation failed to download. This can be caused by a hardware or software resource limitation or a software defect.	iosxe-fwdmgr	Check the logs for information on the relevant download states. Remove the uRPF feature enabled on any interface. Reboot the forwarding processor (FP).
FMRP_CCK-4-INCONSISTENCY_FOUND	4-Warning	Consistency Checker(CCK) detected inconsistency for [chars]. Check 'show consistency-checker run-id [dec] detail'.	CCK has detected the inconsistency between the IOSD and fmanRP tables.	iosxe-fwdmgr	Find out the entry using the show consistency-checker <> command
FPGA_DRV-1-CRC_ERR	1-Alert	SEU errors are detected in FPGA\n	SEU errors are detected in FPGA	INVALID	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FPMD-3-ACL_PROGRAM_FAILURE	3-Error	Failed to associate access-list: [chars]. Reason: [chars]	This syslog is generated when FPMD cannot program or partially programmed given access-list in datapath. This error can result into packets flowing through the network without applying access-list as intended	ipacldp	Check btrace for any error logs, collect tech-support and share with Cisco TAC
FPMD-3-MAX_FILTER_EXCEEDED	3-Error	Filter count exceeded Max ([dec]) filters per class for class_id [dec] at filter_id [dec]	This syslog is generated when maximum number of filters have already been reached for given class	ipacldp	Remove any unused filters from given class

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FPMD-3-POLICY_PROGRAM_FAILURE	3-Error	Failed to associate data-policy [chars] with vpn-list: [chars]. Reason: [chars]	This syslog is generated when FPMD cannot program or partially programmed given data-policy in datapath. This error can result into packets flowing through the network without applying data-policy as intended	vpn-edge-policy	Check btrace for any error logs, collect tech-support and share with Cisco TAC
FPMD-3-SDWAN_POLICE_CONFIRM_BURST_INCREASED	3-Error	SDWAN Policer [chars] Conform burst [dec] increased to [dec]	This syslog is generated when FPMD receives policer config but configured policer burst is less than the default burst tolerance for the CIR	vpn-edge-policy	Check btrace for any error logs, collect tech-support and share with Cisco TAC

Facility-Severity-Mnemonic	Severity-Meaning	Message	Message-Explanation	Component	Recommended-Action
FPMD-5-FLOW_LOG	5-Notice	FLOW LOG device-vpn: [dec] tenant-vpn: [dec] src: [chars]/[dec] dst: [chars]/[dec] proto: [dec] tos: [dec] direction: [chars], policy: [chars], sequence: [dec], Result: [chars] Pkt count: [dec] bytes: [dec] Ingress-Intf: [chars] Egress-intf: [chars] Tenant: [chars]	This syslog is generated for every flow that matches data-policy, app-route policy and/or access-list. The log contains information about L3 and L4 headers, along with direction and result	vip-pdp-policy	No action is required
FPMD-6-ACL_PROGRAM_SUCCESS	6-Information	Successfully associated access-list: [chars]	This informative log is generated when access-list is successfully programmed in data-path	vip-pdp-policy	No action is required
FQDN_MESSAGE-3-FQDN_FLEX_ERR	3-Error	Error in [chars]	ewlc fqdn flex push error message.	iosxe-bmcs-utils	LOG_STD_ACTION
FQDN_MESSAGE-3-FQDN_LISTNAME_ERR	3-Error	Error in [chars]	ewlc FQDN url list name error message.	iosxe-bmcs-utils	LOG_STD_ACTION
FQDN_MESSAGE-3-FQDN_LOCAL_ERR	3-Error	Error in [chars]	ewlc fqdn urllist forwarding push error message.	iosxe-bmcs-utils	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
FTMD-3-FIB_ROUTE_ADD_FAIL	3-Error	Route addition failed for prefix [chars], reason [chars]	This syslog is typically generated when the system is under stress and a route cannot be added in forwarding base	cdetforwarding	Please collect tech-support and share with Cisco TAC, a support ticket should be created to debug this
FTMD-3-INTF_ADD_FAIL	3-Error	Interface ([chars]) addition failed, reason: [chars]	This syslog is generated as the system has reached the maximum capacity for adding new interfaces	cdetforwarding	Remove unused interfaces
FTMD-3-TLOC_ADD_FAIL	3-Error	TLOC ([chars]/[chars]) addition failed, reason: [chars]	This syslog is typically generated when the system is under stress and a TLOC cannot be added in forwarding base or encountered a error	cdetforwarding	No action is required

Facility-Severity-Mnemonic	Severity-Meaning	Message	Message-Explanation	Component	Recommended-Action
FTMD-4-TLOC_EXTN_MISCONFIG	4-Warning	Interface configured for tloc-extension ([chars]) not found	This syslog is typically generated when the invalid interface name is configured under tloc-extension	cedge-forwarding	Action is required to fix the configuration
FTMD-5-FLOW_LOG	5-Notice	**IMPLICIT-ACL** vpn: [dec], source: [chars]/[dec], destination: [chars]/[dec], protocol: [dec], tos: [dec], reason: [chars], packets: [dec], bytes: [dec], ingress-interface: [chars], egress-interface: [chars], hostname: [chars]	This syslog is generated whenever a packet hits implicit ACL	cedge-forwarding	No action is required
GCP-3-THROTTLE	3-Error	[chars] message queue for GCP session([dec]) of RPD([chars]) hits the HIGH WATERMARK([dec])	Message queue is throttled	iosxe-hostmgr	check the GCP response message
GEOFENCE-2-DEVICE_LOCATION_INSIDE	2-Critical	Device location is inside Geofencing range ([chars]) current latitude/longitude: (%.6f, %.6f)	This syslog is generated when the device location is inside configured Geofencing range	geo-fencing	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
GEOFENCE-2-DEVICE_LOCATION_LOST	2-Critical	Device location unavailable [chars]	This syslog is generated when the device location is lost	geo-fencing	No action is required
GEOFENCE-2-DEVICE_LOCATION_OUTSIDE	2-Critical	Device location is outside Geofencing range, current latitude/longitude: (%.6f, %.6f)	This syslog is generated when the device location is outside configured Geofencing range	geo-fencing	No action is required
GEOFENCE-5-DEVICE_LOCATION_UPDATE	5-Notice	Device location changed by more than 20 meters from last report, current latitude/longitude: (%.6f, %.6f)	This syslog is generated when the device moves within configured Geofencing range	geo-fencing	No action is required
GEOFENCE-6-DEVICE_TRACKING_STARTED	6-Information	Device Tracking started in Geofencing mode ([chars])	This syslog is generated when device tracking is started	geo-fencing	No action is required
GEOFENCE-6-DEVICE_TRACKING_STOPPED	6-Information	Device Tracking stopped in Geofencing mode	This syslog is generated when device tracking is stopped while Geofencing feature is enabled	geo-fencing	No action is required

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
GEO_CLOUDM-5-EXEC_CLI	5-Notice	Exec CLI : [chars]	Information message related to exec cli	ewlc-application	LOG_STD_NO_ACTION
GEO_CLOUDM-5-RANGING_REQUEST	5-Notice	Ranging request : [chars]	Information message related to ranging request	ewlc-application	LOG_STD_NO_ACTION
GNMIB-3-GRPC_CON_VRF_TABLE_ID_MISMATCH	3-Error	Received gRPC connection attempt with unexpected table_id 0x%x. Expecting 0x%x. Shutdown	The gRPC server for table_id %d received traffic with an unexpected table ID	polaris-gnxi-infra	ACTION_NONE_REQUIRED
GNMIB-3-VRF_INVALID	3-Error	Failed to start gRPC server for VRF '[chars]'. Verify the VRF exists and has an address-family configured.	No valid table IDs found for the configured VRF	polaris-gnxi-infra	ACTION_NONE_REQUIRED
GNMIB-5-SRV_ADMIN_SCN	5-Notice	Component [[chars]] administrative state: [chars]	gnmib component administrative state	polaris-gnmi-infra	ACTION_NONE_REQUIRED
GNMIB-5-SRV_OPER_SCN	5-Notice	Component [[chars]] operational status: [chars]	gnmib component operational status	polaris-gnmi-infra	ACTION_NONE_REQUIRED
GNMIB-6-GRPC_CON_STATE	6-Information	Received gRPC [chars] from [chars] for RPC [chars]	gRPC Connection state logging	polaris-gnmi-infra	ACTION_NONE_REQUIRED
GNMIB-6-GRPC_CON_STATE_AUTH	6-Information	Received gRPC [chars] from [chars] for RPC [chars] for user [chars] group [chars]	gRPC Connection state logging with user authentication	polaris-gnmi-infra	ACTION_NONE_REQUIRED

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
GNMIB-6-GRPC_TUNN_SESS	6-Information	Received gRPC Tunnel session request from [chars] for Target Type [chars]	gRPC Tunnel state logging	polaris-gnxi-infra	ACTION_NONE_REQUIRED
GNMIB-6-GRPC_TUNN_STATE	6-Information	Connected to gRPC Destination [chars] ([chars]) with Targets[[chars]] using [chars]:[chars]	gRPC Tunnel state logging	polaris-gnxi-infra	ACTION_NONE_REQUIRED
GREENLIB-6-SUBSCRIPTION_RECORD_NOT_SENT	6-Information	Subscription record from DB [[chars]] and table [[chars]] was not sent out due to [[chars]]	A record for an On-change Subscription was not sent due to the size of the record being too large	iosxe-p-db	LOG_STD_ACTION
HFSLIB-3-HFSINOFAILED	3-Error	Inotify failed to initialize : [chars]	This error occurs when the inotify sub-system is misbehaving	iosxe-chassis-mgr	LOG_STD_NO_ACTION
HFSLIB-3-HFSINOWATCH	3-Error	Inotify failed to add a watch: [chars]	This error occurs when the inotify sub-system is misbehaving	iosxe-chassis-mgr	LOG_STD_NO_ACTION
HFSLIB-3-HFSOPEN	3-Error	Problem accessing the udev generated file: [chars]	No explanation.	iosxe-chassis-mgr	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
HL_CORE-3-MAY_DEFER_WRAPPER_RESCHEDULE_FAILED	3-Error	Failed to (re)schedule CPUHOG protected loop. Operation will be aborted. Please check the logs for more details.	Hyperlocation was interrupted while trying to defer a looping operation and can not continue.	iosxe-binos-utils	LOG_STD_NO_ACTION
HL_MGR-3-CMX_IPV6_IN_FABRIC	3-Error	CMX [chars] connected over IPv6 which is not currently supported for Hyperlocation in Fabric mode.	Currently the Fabric mode only operates over IPv4.	iosxe-binos-utils	Please connect the CMX over IPv4, or change the mode to flex/local.
HL_MGR-3-NEXTHOP_OUTPUT_INTERFACE_NOT_SVI	3-Error	CMX [chars] is reachable through a routed port with MAC address %pM. This deployment configuration is not supported for Hyperlocation	CMX should be reachable via a SVI (VLAN) interface for traffic forwarding to be operational	iosxe-binos-utils	Please rejoin CMX.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
HMAN-2-INITIALIZATION_FAILED	2-Critical	Host Manager initialization failed.	Initialization of the host manager failed.	iosxe-hostmgr	Review Host Manager logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl or contact your Cisco technical support representative and provide the representative with the gathered information.
HMAN-3-CONSOLE_SETUP_FAILED	3-Error	Failed to setup console service. It should be enabled on [chars]	Setup of a console service failed.	iosxe-hostmgr	Check the host manager launch parameters and correct as required.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
HMAN-3-HOSTNAME_SET_FAILED	3-Error	Failed to set hostname: [chars]	The host manager received notification that the system hostname has been set. The host manager failed to pass this value to the ASR kernel.	ios-hostmgr	Repeat the process to configure the hostname. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
HMAN-3-VRF_API_FAILED	3-Error	[chars], vrf ([chars]) - ret ([dec])	The host manager has received notification that the VRF information needs to be modified. The host manager failed to perform the operation due to the error indicated in the log.	iosxe-hostmgr	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.
HMAN_CPU-3-PAGE_FAULT_HIGH	3-Error	CPU Usage due to Memory Pressure exceeds threshold on [chars]. Below are the top 5 memory consuming processes: [chars] (PID=[dec]; RSS=[dec] KB), [chars] (PID=[dec]; RSS=[dec] KB), [chars] (PID=[dec]; RSS=[dec] KB), [chars] (PID=[dec]; RSS=[dec] KB), [chars] (PID=[dec]; RSS=[dec] KB)	When CPU usage due to Major Page Fault exceeds a pre-defined threshold for a CPU core, this error message is emitted.	iosxe-hostmgr	No action is needed if system continues to perform as expected. If sytem performance deteriorate (and eventually, system reloads due to unspecified reason) around the time when this message is observed, open a case with the Technical Assistance Center via the following Internet link, or contact your Cisco technical support representative: http://www.cisco.com/cisco/web/support/index.html

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
HW_IDPROM_ENVMON-2-ACT2_UDI_DATA_INVALID	2-Critical	The act2 udi secure area format mismatch with unsecure area		iosxe-hmcs-utils	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			This Router may not have been manufactured by Cisco or with Cisco's authorization. This product may contain software that was copied in violation of Cisco's license terms. If your use of this product is the cause of a support issue, Cisco may deny operation of the product, support under your warranty or under a Cisco technical support program such as Smartnet. Please contact Cisco's Technical Assistance Center for		

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
			more information.		
HW_IDPROM_ENVMON-3-HW_IDPROM_CHECKSUM_INVALID	3-Error	The idprom contains an invalid checksum in a sensor entry. Expected: %x, calculated: %x	If this error occurs then parsing of the environmental monitoring data is aborted. Environmental monitoring will be either incomplete or absent entirely.	iosxe-binos-utils	LOG_STD_RECUR_ACTION
HW_IDPROM_ENVMON-3-HW_IDPROM_FIELD_INVALID	3-Error	The idprom contains an invalid environmental monitoring field.	If this error occurs then parsing of the environmental monitoring data is aborted. Environmental monitoring will be either incomplete or absent entirely.	iosxe-binos-utils	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
HW_IDPROM_ENVMON-3-PS_IDPROM_INVALID_PID	3-Error	[chars] in slot PFU[dec] has INVALID PID [chars] and it needs to be replaced immediately	The PID read from the PEM IDPROM is not supported in this hardware configuration. It will be allowed to continue but immediate replacement is required	ios-chassis-mgr	LOG_STD_RECUR_ACTION
HW_PFU-3-PFU_IDPROM_CORRUPT	3-Error	The PEM/FM idprom could be read, but is corrupt in slot P[dec] The system will run without environmental monitoring for this component	The idprom contains information required in order to properly operate the environmental monitoring subsystems. The idprom could not be read, therefore no monitoring will take place.	ios-chassis-mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
HW_PFU-3-PFU_IDPROM_INVALID_PID	3-Error	The PEM/FM idprom has invalid PID in slot PFU[dec] The system will run without environmental monitoring for this component	The idprom contains PID information required in order to properly operate the environmental monitoring subsystems. The idprom PID is invalid , therefore no monitoring will take place.	chassis mgr	LOG_STD_RECUR_ACTION
HW_PFU-3-PFU_IDPROM_READ_ERR	3-Error	Could not read the PEM/FM idprom in slot P[dec].The system will run without environmental monitoring for this component	The idprom contains information required in order to properly operate the environmental monitoring subsystems. The idprom could not be read, therefore no monitoring will take place.	chassis mgr	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
HW_PFU-3-PFU_UNSUPPORTED_PID	3-Error	The PEM/FM in slot P[dec] is not supported. The system will run without environmental monitoring for this component	The PEM/FM inserted in not supported by this platform. Replace with a supported module.	asr900sys-rsp3	LOG_STD_RECUR_ACTION
ID_MANAGER-3-ID_MANAGER_INTERNAL_ERROR	3-Error	Internal erorr occurred: [chars]	Internal Error occured with ID Manager	iosxe-linux-utils	LOG_STD_ACTION
ID_MANAGER-3-INVALID_ID	3-Error	bad id in [chars] (id: 0x%08X)	An ID Manager error occurred	iosxe-linux-utils	LOG_STD_ACTION
ID_MANAGER-3-INVALID_ID_TABLE_SIZE	3-Error	bad new ID table size	A bad new table request to ID Manager occurred	iosxe-linux-utils	LOG_STD_ACTION
IFM-3-RSRC_L3_LE_ERR	3-Error	Interface [chars] creation failed due to L3 Interface hardware resource exhaustion	Hardware resource for L3 Interface exhausted and the requested interface will not be created.	INVALID	Collect output of show platform hardware fed switch <switch number> fwd-asic resource utilization command. Check if RSC_L3IF_LE has exhausted. If yes, free up any unused L3 Interfaces by doing no interface <interface> and retry creating the failed interface.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
ILET-2-AUTHENTICATION_FAIL	2-Critical	The system integrity check has failed during the boot-up sequence. Please contact Cisco's Technical Assistance Center for more information.	Trusted Anchor module detected an invalid SUDI.	iosxe-hostmgr	Please contact Cisco's Technical Assistance Center for more information
IM-0-EVENT_LIBRARY	0-Emergency	An event facility initialization or maintenance function failed because [chars]	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	polaris-infra	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.
IM-0-UIPEER_CREATE	0-Emergency	Failed to create user interface peer.	The system failed to create a user interface peer.	polaris-infra	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-2-ACTIVATION_STATE	2-Critical	[chars] '[chars]' [chars] [chars]	The activation state of the named virtualization service has changed as notified by IOx-manager.	polaris-infra	In the failed case, check IOx-manager's logs for the cause of the failure. In the successful case, this notification can be ignored.
IM-2-ALLOC_VIRT_INST_RCS	2-Critical	Virtualization Service[chars]	A memory allocation request failed to allocate a data structure required to activate the virtualization service.	polaris-infra	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.
IM-2-CPUSHARES_LIMIT	2-Critical	Virtualization Service[chars]	The virtualization service machine definition file is requesting more CPU shares than the system has available for virtualization services.	polaris-infra	Deactivate any other virtualization services to free up CPU share resources and activate this virtualization service. If that does not address the problem, then enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-2-DEACT_FOR_ISSU	2-Critical	[chars] Max ([dec]s)	An ISSU event is pending. Any active VMs will be automatically deactivated to allow ISSU preprocessing to validate the environment. Any ISSU deactivated VMs will be automatically restarted if the ISSU is cancelled.	polaris-infra	None. Allow the ISSU to continue and the VMs will restart when the ISSU completes; or cancel the ISSU and IOx-manager will automatically restart the VMs.
IM-2-DISK_IMAGE_PATH	2-Critical	Virtualization Service[chars]	The virtualization service machine definition file contains an invalid disk image path for one of the disk devices. This may be a Harddisk, CDROM or USB storage device.	polaris-infra	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-2-FIND_VIRT_INST_ENTRY	2-Critical	Failed to find virtualization service with id [dec] in the IOx-manager list	The virtualization service with the ID named could not be located in the IOx-manager list.	polaris-infra	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.
IM-2-GENERAL_FAILURE	2-Critical	Virtualization Service[chars]	The named virtualization service has triggered the log. Please interpret the log in the context of the virtualization services.	polaris-infra	No action is required
IM-2-GUESTSHELL_ENABLED	2-Critical	The guest shell has been enabled. The command '[chars]' may be used to access it, '[chars] destroy' to remove it.	Informs the user that the guest shell virtualization service has been enabled (which is done by default).	polaris-infra	The user may use or remove the guest shell with the commands specified.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-2-HA_STATE	2-Critical	[chars] [chars] [chars] [chars]	IOx-manager tries to detect the role/slot of various nodes on HA events from the platform. If any of those event callbacks fail, this notification would be raised.	polaris-infra	In the failed case, check IOx-manager's logs for the cause of the failure. Check for the HA event error msg and root cause the same.
IM-2-HA_SWITCHOVER_STATE	2-Critical	[chars] [chars] [chars] [chars]	IOx-manager HA switchover state related messages for a virtual-service whilst it is being recovered on newly active RP after a HA switchover.	polaris-infra	In the failed case, check IOx-manager's logs for the cause of the failure. Check for the HA event error msg and root cause the same.
IM-2-HA_SYNC_ERR	2-Critical	[chars] '[chars]' [chars]	The ha-sync persistent storage disk for the virtualization service cannot be watched for sync to standby RP.	polaris-infra	Collect the IOx-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-2-HA_SYNC_THREAD_STATE	2-Critical	HA remote sychronize thread has failed and exited.	IOx-manager tries to remote sync the OVA repository to all online nodes using a separate thread. If that thread fails, this notification would be raised.	polaris-infra	In the failed case, check IOx-manager's logs for the cause of the failure. Check for the pthread error msg and root cause the same.
IM-2-INITIALIZATION_FAILED	2-Critical	Initialization of [chars] failed for IOx Manager	Initialization of IOx Manager process failed.	polaris-infra	Review ioxman logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log.
IM-2-INSTALL_FAILURE	2-Critical	Virtualization Service[chars]	The installation of the virtualization service failed.	polaris-infra	Enable the IOx-manager trace logs and repeat the installation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity-Meaning	Message	Message-Explanation	Component	Recommended-Action
IM-2-INSTALL_LOG	2-Critical	[chars] [chars] [chars] [chars]	The installation log of the named virtualization service, is to provide more information about long running operation, that could affect the control of CLI	polaris-infra	No action is required
IM-2-INSTALL_MEDIA_RETRY	2-Critical	VM install media still unavailable.[chars]	The install media was not detected. Waiting for udev to complete install media (harddisk) detection.	polaris-infra	After IOx-manager exceeds the maximum retry limit, verify if install media (harddisk) is accessible and retry the installation again.
IM-2-INSTALL_STATE	2-Critical	[chars] '[chars]'[chars] [chars]	The installation state of the named virtualization service has changed as notified by IOx-manager.	polaris-infra	In the failed case, check IOx-manager's logs for the cause of the failure. In the successful case, this notification can be ignored.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-2-INVALID_ACT_MSG	2-Critical	Virtualization Service[chars]	The virtualization service activate message was received, however, the data it contained could not be interpreted	polaris-infra	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.
IM-2-INVALID_DEACT_MSG	2-Critical	Failed to process virtualization service deactivate message	The virtualization service deactivate message was received, however, the data it contained could not be interpreted	polaris-infra	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.
IM-2-INVALID_UNPROV_MSG	2-Critical	Failed to process virtualization service unprovision message	The virtualization service unprovision message was received, however, the data it contained could not be interpreted	polaris-infra	Enable the IOx-manager trace logs and repeat the activation followed by deactivation and then unprovision of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-2-IOX_INST_CRIT	2-Critical	IOX SERVICE [chars] LOG: [chars]	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.	polaris-infra	No action is required
IM-2-IOX_INST_LOG_UNTHROTTLE	2-Critical	Failed to unthrottle the log for IOX service [chars]	The named IOX service had sent overwhelming sys log messages and its log had been throttled as a result, but system has failed to unthrottle it for some reason.	polaris-infra	For debugging collect the ioxman logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-2-MEMORY_LIMIT	2-Critical	Virtualization Service[chars]	The virtualization service machine definition file is requesting more memory than the system has available for virtualization services.	polaris-infra	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.
IM-2-MOVE_STATE	2-Critical	[chars] '[chars]' [chars] [chars]	The move of the core or log file of the named virtualization service has as been successful or failed as notified by IOx-manager.	polaris-infra	In the failed case, check IOx-manager's logs for the cause of the failure. In the successful case, this notification can be ignored.
IM-2-NETWORK_CONFIG_ERROR	2-Critical	Virtualization Service[chars]	A network configuration error has been detected for the named virtualization service.	polaris-infra	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-2-RESET_FORCE	2-Critical	Virtualization Services non-recoverable reset command processed		polaris-infra	Once the command is entered and accepted, there is no recourse but to restart the system.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			A 'virtualization service reset force' command has been entered and processed. This action initiates a cleanup of last resort. Occasionally a VM will get into an unrecoverable state that prevents it from activating but also from uninstalling. This is a rare event but when it happens the only resort may be to remove the .conf control file and reboot, which forces a cleanup of all previously installed VM files and artifacts. Note that		

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			once this command is used, current VMs are considered to be in an unstable or unpredictable state, and all future install, uninstall, upgrade, and activation commands will be blocked.		
IM-2-RESIZE_OPER_STATE	2-Critical	Virtualization service '[chars]' [chars][chars] to '[dec]' [chars]	IOx-manager attempts to resize various VM parameters like rootfs size, CPU share, memory if requested by user. Success/failure status messages for these resize operations are communicated by this syslog.	polaris-infra	In the failed case, check IOx-manager's logs for the cause of the failure. Check for the HA event error msg and root cause the same.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-2-RSYNC_STATE	2-Critical	[chars] [chars] [chars] [chars]	IOx-manager tries to remote sync the virtual-instance configuration file and the OVA repository to all online nodes. If rsync fails even after consecutive retries, this notification would be raised.	polaris-infra	In the failed case, check IOx-manager's logs for the cause of the failure. Check for the rsync error code and root cause the same.
IM-2-START_FAILED	2-Critical	Virtualization Service[chars]	The named virtualization service failed to start.	polaris-infra	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.
IM-2-UNINSTALL_ALL_VMS	2-Critical	All Virtualization Services are being uninstalled [chars][chars] [chars]	All virtualization services are being uninstalled by IOx-manager.	polaris-infra	Examine the reason given as to why all virtualization services are being uninstalled for more information. If the reason indicated is due to some error condition, check IOx-manager's logs for the cause of the failure.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-2-UPGRADE_LOG	2-Critical	[chars] [chars] [chars] [chars]	The upgrade log of the named virtualization service, is to provide more information about long running operation, that could affect the control of CLI	polaris-infra	No action is required
IM-2-VCPU_INVALID	2-Critical	Virtualization Service[chars]	The virtualization service machine definition file is requesting invalid VCPU value.	polaris-infra	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.
IM-2-VCPU_LIMIT	2-Critical	Virtualization Service[chars]	The virtualization service machine definition file is requesting more VCPUs than the system has reserved for virtualization services.	polaris-infra	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-2-VIRT_INST_DISK	2-Critical	Virtualization Service[chars]	The virtualization service requires Disk Storage in excess of the Free Disk Storage available to virtualization services.	polaris-infra	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.
IM-2-VIRT_INST_LOG_UNTHROTTLE	2-Critical	Failed to unthrottle the log for virtualization service [chars]	The named virtualization service had sent overwhelming sys log messages and its log had been throttled as a result, but system has failed to unthrottle it for some reason.	polaris-infra	For debugging collect the iox-manager logs and scan them for the cause.
IM-2-VIRT_INST_MEMORY	2-Critical	Virtualization Service[chars]	The virtualization service requires physical memory in excess of the free memory available to virtualization services.	polaris-infra	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
IM-2-VIRT_INST_MGMT_INTERFACE	2-Critical	Virtualization service [chars] has no management interface defined but it is configured in CLI.	A management interface is configured but none is defined.	polaris-infra	Deactivate the virtualization service, remove the management interface configuration CLI, and reactivate the virtual-service.
IM-2-VIRT_INST_STATE	2-Critical	Virtualization Service[chars]	The named virtualization service has failed. It is no longer running either because the guest OS has failed, the guest OS has shut down the machine or the emulator has failed.	polaris-infra	An attempt at restarting the virtualization service can be made from the IOS configuration by doing a no activate/activate. For debugging collect the IOx-manager logs and scan them for the cause.
IM-3-IOX_INST_ERR	3-Error	IOX SERVICE [chars] LOG: [chars]	The named IOX service has triggered the log. Please interpret the log in the context of the IOX services.	polaris-infra	No action is required
IM-3-IOX_NETMASK_ERR	3-Error	app configuration has wrong [chars] netmask.	The netmask configuration is wrong.	polaris-infra	Configure guest-ipaddress with IPV4 or IPV6 netmask.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-3-PSS_ERR	3-Error	Purpose: [chars], URI: [chars], errcode: [dec]	Persistent Storage Service handling error	polaris-infra	Collect the IOx-manager logs and scan them for the cause.
IM-3-PSS_SNAPSHOT_ERR	3-Error	Source URI: [chars], Destination URI: [chars], errcode: [dec]	Persistent Storage Service snapshot error	polaris-infra	Collect the IOx-manager logs and scan them for the cause.
IM-3-SDWRAP_ERR	3-Error	Description: [chars], errcode: [dec]	Debug infrastructure error	polaris-infra	Collect the IOx-manager logs and scan them for the cause.
IM-4-HA_SYNC_NEEDED	4-Warning	If using the guest shell, please use 'guestshell sync' if you want to preserve state on standby in case of supervisor switchover	Message notifying user that he needs to manually synchronize the Virtualization service contents to standby supervisor in order to preserve these contents in case of a supervisor switchover. Currently only applicable to the guest shell	polaris-infra	User can type the 'guestshell sync' command on active supervisor to synchronize it's contents to the standby supervisor if desired.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-4-IOX_INST_WARN	4-Warning	IOX SERVICE [chars] LOG: [chars]	The named IOX service has triggered the log. Please interpret the log in the context of the IOX services.	polaris-infra	No action is required
IM-4-VIRT_SERVICE_DEPRECATE_MSG	4-Warning	Virtual-service CLI's are being deprecated. Please migrate to app-hosting CLI's	Virtual-service CLI's will be deprecated. Please migrate to app-hosting CLI's	polaris-infra	Upgrade to use app-hosting CLI's for configuring IOX applications
IM-4-WATCHDOG_TIMER	4-Warning	[chars] '[chars]' [chars] [chars]	The watchdog timer configured for the named virtual service has expired.	polaris-infra	Check any logs produced by the virtualization service to determine the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-5-AUX	5-Notice	Virtualization Service[chars]	The AUX login to a virtualization service may allow the user access to system functions that may not have been tested or may interact with the system in unintended ways. Use with caution.	polaris-infra	No action is required
IM-5-IOX_INST_NOTICE	5-Notice	IOX SERVICE [chars] LOG: [chars]	The named IOX service has triggered the log. Please interpret the log in the context of the IOX services.	polaris-infra	No action is required

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
IM-5-IOX_IPV6_NOTICE	5-Notice	guest-interface([dec]), IPV6 address configured with guest-ipaddress is ignored	The IPV6 address configuration with guest-ipaddress is ignored. 'ipv6-address' has been configured and multiple static IPV6 addresses are not supported	polaris-infra	Configure guest-ipaddress with IPV4 address.
IM-5-IOX_NOTICE	5-Notice	app-hosting: [chars]	The generic IOX notice. Please interpret the log in the context of the information provided.	polaris-infra	No action is required
IM-5-IOX_URL_COPY_MSG	5-Notice	URL Copy: [chars]	Copy a package file from URL	polaris-infra	Check if 'ip name-server', 'ip name-server vrf Mgmt-vrf' and 'ip http' are configured properly for the device
IM-5-IOX_VPG_IPV6_MSG	5-Notice	no IPv6 address for VirtualPortGroup[dec] in IOS_Oper_DB	VirtualPortGroup IPv6 address is not present in IOS_Oper_DB	polaris-infra	Check if 'show ip interface brief' displays IPv6 for the VirtualPortGroup

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-5-PERMISSION_DENIED	5-Notice	Virtualization Service '[chars]' is not owned by client IOSd	An attempt was made to modify a virtual-service that is not owned by by the client. The request was rejected.	polaris-infra	No action is required.
IM-6-ACTIVATE_MSG	6-Information	app-hosting: [chars]	Message for activating an app.	polaris-infra	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.
IM-6-DEACTIVATE_MSG	6-Information	app-hosting: [chars]	Message for deactivating an app.	polaris-infra	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.
IM-6-INSTALL_MSG	6-Information	app-hosting: [chars]	Message for installing an app.	polaris-infra	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.
IM-6-IOX_ENABLEMENT	6-Information	IOX is ready.	Message for IOX enablement.	polaris-infra	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-6-IOX_INST_INFO	6-Information	IOX SERVICE [chars] LOG: [chars]	The named IOX service has triggered the log. Please interpret the log in the context of the IOX services.	polaris-infra	No action is required
IM-6-IOX_MEDIA_MSG	6-Information	dynamic media: [chars]	Message for IOX shared median	polaris-infra	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.
IM-6-IOX_RECONCILE_INFO	6-Information	App-hosting application reconcile process [chars]	Indicates stage of reconcile (application recovery) process.	polaris-infra	No action is required
IM-6-IOX_START_FAIL	6-Information	[chars] failed to start	Indicates starting an app after installation.	polaris-infra	No action is required
IM-6-IOX_START_INFO	6-Information	[chars] cannot be started because it is not installed	Indicates starting an app before installation.	polaris-infra	No action is required
IM-6-IOX_START_SUCCESS	6-Information	[chars] is in RUNNING state	Indicates starting an app after installation.	polaris-infra	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IM-6-START_MSG	6-Information	app-hosting: [chars]	Message for starting an app.	polaris-infra	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.
IM-6-STOP_MSG	6-Information	app-hosting: [chars]	Message for stopping an app.	polaris-infra	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.
IM-6-UNINSTALL_MSG	6-Information	app-hosting: [chars]	Message for uninstalling an app.	polaris-infra	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.
IM-6-UPGRADE_MSG	6-Information	app-hosting: [chars]	Message for upgrading an app.	polaris-infra	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.
IM-6-VERIFICATION_MSG	6-Information	app-hosting: [chars]	Message for signature verification	polaris-infra	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.
IM-7-IOX_INST_DEBUG	7-Debug	IOX SERVICE [chars] LOG: [chars]	The named IOX service has triggered the log. Please interpret the log in the context of the IOX services.	polaris-infra	No action is required

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
IMGR-0-FIPS_CPP_CLIENT_BYPASS_TEST	0-Emergency	CPP Client FIPS bypass test failed for [chars]\n.	Forwarding Manager CPP client IPSEC bypass test failed. This could be due to a hardware malfunction or a software defect.	iosxe-fwdmgr	If the problem persists reboot the forwarding processor (ESP).
IMGR-0-FIPS_FMFP_BYPASS_TEST	0-Emergency	NIST bypass test failed for [chars].\n	Forwarding Manager IPsec component detected a discrepancy when adding or deleting a security sensitive object. This could be due to a hardware or software resouce limitation or a software defect.	iosxe-fwdmgr	Check the logs for information on the relevant object download states. Remove the object or a parent object in question. If the problem persists reboot the forwarding processor (ESP).
IMGR-0-FIPS_FMFP_N2_SEVERE_ERR_FAIL	0-Emergency	Cryptographic coprocessor severe failure: [chars]\n.	Cryptographic coprocessor critical operation failed. Further data processing on ESP is halted	iosxe-fwdmgr	forwarding processor (ESP) is rebooted automatically. no action needed

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IMGR-6-FIPS_FMFP_CRNG_TEST	6-Information	continuous [chars]approved RNG test failed.\n	Forwarding Manager IPsec component detected two identical random number sequences. This could be due to a hardware mulfunction or a software defect.	iosxe-fwdmgr	If the problem persists reboot the forwarding processor (ESP).
IMGR-6-FIPS_FMFP_KAT_TEST	6-Information	power up cryptographic self-test did not run to completion: [chars]\n.	Forwarding Manager power up known answer self-test (KAT) failed. This could be due to a hardware malfunction or a software defect.	iosxe-fwdmgr	If using ipsec, reboot the forwarding processor (ESP).
IMGR-6-FIPS_FMFP_N2_ERR_FAIL	6-Information	Cryptographic coprocessor non-critical failure: [chars]\n.	Cryptographic coprocessor non-critical operation failed. If the problem persists reboot the forwarding processor (ESP)	iosxe-fwdmgr	If the problem persists reboot the forwarding processor (ESP).

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
IMGR-6-FIPS_FMFP_OLAP_TEST	6-Information	FIPS-approved RNG key seed and state overlap.\n	Forwarding Manager IPsec component detected an overlap in FIPS-approved RNG key seed and state. This could be due to a hardware mulfunction or a software defect.	iosxe-fwdmgr	If the problem persists reboot the forwarding processor (ESP).
IMGR-6-FMFP_CRYPTO_DEVICE_BUSY	6-Information	All Crypto Device cores are busy with data packets.\n	All ESP crypto device are busy.	qfp-ipsec	May need to lower crypto traffic rate.
IMGR-6-FMFP_IPSEC_CRYPTO_CTRL_THROTTLED	6-Information	IPsec Control Plane Overload Crypto Device: [chars].	This ESP crypto device is overloaded.	qfp-ipsec	May need to config platform ipsec control-plane medium|heavy
IMGR-6-FMFP_IPSEC_MIN_MTU_INFO	6-Information	MTU smaller than minimum IPSec MTU, [chars]\n.	Minimum MTU supported by crypto processor is 256B, MTU lower than 256B is set to 256B	iosxe-fwdmgr	No action needed
IMGR-6-FMFP_IPSEC_UNSUPPORTED_CIPHER	6-Information	Cipher [chars] is not supported on this ESP.	This ESP does not support this IPSec cipher	iosxe-fwdmgr	No action needed

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IMGR-6-FMFP_KAT_TEST_RESULT	6-Information	crypto self-test for algorithm: ([chars] ... passed)\n.	Forwarding Manager power up known answer self-test (KAT) success. This is not an error message	iosxe-fwdmgr	No action needed.
INSTALL-3-ACTIVATE_ABORTED	3-Error	Activation operation failed for version [chars]	This log is generated image activation fails	cedge-install	No action is required
INSTALL-3-ACTIVATE_FAILED	3-Error	Aborting activate operation	This log is generated activation is aborted	cedge-install	No action is required
INSTALL-3-CONTROL_CONN_DOWN	3-Error	Device cannot form control connection with SD-WAN Manager for [dec] seconds. Upgrade status cannot be posted to SD-WAN Manager	This log is generated when we cannot deliver upgrade status to Cisco SD-WAN Manager since control connection is down	cedge-install	No action is required
INSTALL-3-DOWNLOAD_ABORTED	3-Error	Aborting download operation	This syslog is generated when download operation is aborted	cedge-install	No action is required

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
INSTALL-3-INSTALL_ABORTED	3-Error	Aborting image install operation	This syslog is generated when download operation is aborted	cedge-install	No action is required
INSTALL-3-INSTANT_ERROR_MESSAGE	3-Error	Error Message: [chars]	This message is used to send a instant erorr message.	iosxe-binos-utils	No action required.
INSTALL-3-LOCK_ACQUIRE_FAILED	3-Error	Cannot acquire upgrade lock, reason: [chars]	This syslog is generated when upgrade lock cannot be acquired for given reason	cedge-install	Wait for previous operation to complete before starting new workflow
INSTALL-3-OPERATION_ERROR_MESSAGE	3-Error	Failed to [chars] package [chars], Error: [chars]	This message is used to inform the failure reason.	iosxe-binos-utils	Please refer to the error message to analyze the cause of failure.
INSTALL-3-PRECHECK_STATUS_DELIVERY_FAILED	3-Error	Failed to deliver pre-upgrade check [[chars]] status to SD-WAN Manager	This syslog is generated when pre-upgrade check status cannot be delivered to Cisco SD-WAN Manager	cedge-install	This can be an interim state where control connection can be down. Software upgrade workflow can be retried once the control connectivity is restored

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
INSTALL-3-SMU_ACTIVATE_ABORTED	3-Error	SMU activatation aborted	This log is generated when SMU activation cannot continue (or) fails because of a reason	cedge-install	No action is required
INSTALL-3-SMU_ACTIVATE_FAILED	3-Error	SMU activatation failed, reason: [chars]	This log is generated when SMU activation cannot continue (or) fails because of a reason	cedge-install	No action is required
INSTALL-3-SMU_DEACTIVATE_FAILED	3-Error	SMU deactivate operation failed, reason: [chars]	This log is generated when SMU deactivation cannot continue (or) fails because of a reason	cedge-install	No action is required
INSTALL-3-SMU_INSTALL_ABORTED	3-Error	Aborting install SMU operation	This log is generated when SMU activation succeeds	cedge-install	No action is required

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
INSTALL-3-SMU_REMOVE_FAILED	3-Error	SMU remove operation failed, reason: invalid SMU version [[chars]] provided	This log is generated when SMU removal fails because of incorrect version	cedge-install	No action is required
INSTALL-3-SMU_UPGRADE_CONFIRM_DISALLOWED	3-Error	Image activation is in progress. Please use 'request platform software sdwan software upgrade-confirm' CLI	This log is generated when user is trying to confirm SMU upgrade-confirm while activation is in progress	cedge-install	'request platform software sdwan software upgrade-confirm' should be issued when this log is observed
INSTALL-3-UPDATE_STATUS_DELIVERY_FAILED	3-Error	Failed to deliver update-status [[chars]] to SD-WAN Manager, message: [chars]	This syslog is generated when upgrade status cannot be delivered to Cisco SD-WAN Manager	cedge-install	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
INSTALL-3-UPGRADE_ABORTED	3-Error	SD-WAN Manager no longer accepts REST request for transaction-identifier [chars]. [chars]	This syslog is generated when SD-WAN Manager denies REST API during upgrade workflow. This could imply that device is working on stale transaction	cedge-install	Please contact Cisco TAC for assistance
INSTALL-3-UPGRADE_CONFIRM_DISALLOWED	3-Error	SMU activation/deactivation is in progress. Please use 'request platform software sdwan smu upgrade-confirm' CLI	This log is generated when user is trying to confirm software upgrade when SMU activation/ deactivation is in progress	cedge-install	'request platform software sdwan smu upgrade-confirm' should be issued when this log is observed
INSTALL-4-DOWNGRADE_DISALLOWED	4-Warning	You are trying to activate an old image which will remove all the config and bring the router back to day-0 state. Please specify 'clean' after activate <version> to proceed.	Downgrade is not allowed without 'clean' option	cedge-install	Provide 'clean' option while activating old image, exercise with caution

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
INSTALL-4-OLD_IMAGE_ACTIVATION	4-Warning	Old version being activated. Any config modifications done in [chars] will not be updated in [chars]	This log is generated when user tries to activate a previously installed image	cedge-install	No action is required
INSTALL-4-SCHEDULED_INSTALL_MISMATCH	4-Warning	Current version is not same as the version [chars] when install operation was scheduled	This syslog is generated when the installer script finds out that the current software version is different than the one when the operation was scheduled	cedge-install	No action is required
INSTALL-5-AUTO_CONFIRM	5-Notice	Auto upgrade-confirm [chars]	This log is generated when upgrade is auto-confirmed	cedge-install	No action is required
INSTALL-5-DOWNLOAD_PARAMS	5-Notice	timeout: [dec] seconds, VPN: [chars], protocol [chars]	This syslog displays download parameters sent by SD-WAN Manager to device	cedge-install	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
INSTALL-5-INSTALL_AUTO_ABORT	5-Notice	Install auto abort timer expired: initiating abort	An install operation has been aborted because the auto abort timer has expired.	iosxe-binos-utils	No user action is needed. If you want to commit the ISSU upgrade, redo the upgrade. Otherwise, this is an informational message only.
INSTALL-5-INSTALL_AUTO_ABORT_TIMER_PROGRESS	5-Notice	Install auto abort timer will expire in [dec] seconds	An install operation will be aborted after specified seconds of time.	iosxe-binos-utils	No user action is needed. If you want to commit the ISSU upgrade, redo the upgrade. Otherwise, this is an informational message only.
INSTALL-5-INSTALL_COMPLETED_INFO	5-Notice	Completed [chars] [chars] [chars]	This message is used to indicate the completion of install operations.	iosxe-p-install	No action required. This is not an error, it is an indication that the system completed this operation.
INSTALL-5-INSTALL_SCHEDULE_TIMER_PROGRESS	5-Notice	Install schedule timer will expire in [dec] seconds	An install operation will be started after specified seconds of time.	iosxe-p-install	No user action is needed. This is an informational message only.
INSTALL-5-INSTALL_START_INFO	5-Notice	Started [chars] [chars] [chars]	This message is used to indicate the beginning of install operations.	iosxe-p-install	No action required. This is not an error, it is an indication that the system is starting this operation.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
INSTALL-5-OPERATION_COMPLETED_INFO	5-Notice	Completed [chars] package [chars]	This message is used to indicate the completion of operations.	iosxe-binos-utils	No action required. This is not an error, it is an indication that the system completed the operation.
INSTALL-5-OPERATION_START_INFO	5-Notice	Started [chars] package [chars]	This message is used to indicate the beginning of operations.	iosxe-binos-utils	No action required. This is not an error, it is an indication that the system is starting the operation.
INSTALL-5-PRECHECK_STATUS	5-Notice	[[chars]] [chars]: [chars]	This syslog is generated when pre-upgrade checks are done during upgrade workflow	cedge-install	No action is required
INSTALL-5-SMU_ACTIVATE_SUCCEEDED	5-Notice	Activation of SMU successful via CLI. Proceed to upgrade-confirm via CLI	This log is generated when SMU activation succeeds	cedge-install	No action is required
INSTALL-5-SMU_DEACTIVATE_SUCCEEDED	5-Notice	De-activation of SMU successful. Proceed to upgrade-confirm via CLI	This log is generated when SMU deactivation succeeds	cedge-install	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
INSTALL-5-UPDATE_STATUS	5-Notice	Upgrade update-status [[chars]], message: [chars]	This syslog is generated for every step completed in upgrade workflow, which is triggered via CLI	cedge-install	No action is required
INSTALL-5-UPDATE_STATUS_DELIVERED	5-Notice	[chars]: message: [chars]	This syslog is generated when upgrade status is delivered to Cisco SD-WAN Manager	cedge-install	No action is required
IOMD_ETHER_GEIM-2-MAX_LIMIT_XCVR	2-Critical	Number of [chars] that can be supported has reached the max limit of [dec], transceiver is err-disabled. Unplug the transceiver in interface [chars]	Because of power constraints, we can support only limited number of high power transceivers in certain platforms. If we insert more than the limit, it will be disabled. It is recommended to unplug the transceiver	INVALID	Unplug the transceiver once the max limit is reached

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
IOMD_ETHER_GEIM-3-FIFO_OVERFLOW	3-Error	[chars] fifo overflow occurred for port [dec]	A hardware error in phy has occurred	asr900-im	Examine the IOMD logs for Phy driver or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
IOMD_ETHER_GEIM-3-INTERRUPT_ERR	3-Error	interrupt handling error [chars]	Interrupt could not be handled because of internal sw error	INVALID	Examine the IOMD logs. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IOMD_ETHER_GEIM-4-LC_OIR_REQD	4-Warning	Found mismatch between the line card Phy firmware versions bundled in software and programmed in hardware in slot [dec]. To upgrade the Phy firmware to version bundled in software, perform physical OIR of the line card or run the CLI: hw-module subslot [dec]/[dec] oir power-cycle. If ISSU is in progress, firmware upgrade should be done only after the completion of ISSU. To check the firmware versions, use the CLI: show firmware version all		INVALID	To upgrade to latest phy firmware, do physical OIR or soft OIR of the line card using CLI: hw-module subslot <slot>/<bay> oir power-cycle. To view the present phy firmware version, use the CLI: show platform hardware iomd <slot>/<bay> ethernet_controllers phy <port number> api-version or show firmware version all

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			During ISSU the software does not upgrade the PHY firmware. PHY firmware upgrade needs a reset and will lead to data path down time. Hence software avoids PHY firmware upgrade. This causes a mismatch between the firmware bundled in the image and that programmed in the PHY. Due to this mismatch any new features claimed by the new software will not be automatically enabled and needs a manual		

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			upgrade via power-cycle of the line card		

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IOMD_ETHER_GEIM-4-NOT_SUPPORTED	4-Warning	1G Transceiver is inserted in slot [dec] for ports [chars]. The current linecard phy firmware does not support 1G capability. To upgrade the firmware, perform physical OIR of the line card or use the CLI: hw-module subslot [dec]/0 oir power-cycle. If ISSU is in progress, firmware upgrade should be done only after the completion of ISSU		INVALID	To upgrade to latest phy firmware, do physical OIR or soft OIR of the line card using CLI: hw-module subslot <slot>/<bay> oir power-cycle. To view the present phy firmware version, use the CLI: show platform hardware iomd <slot>/<bay> ethernet_controllers phy <port number> api-version or show firmware version all

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			During ISSU the software does not upgrade the PHY firmware. PHY firmware upgrade needs a reset and will lead to data path down time. Hence software avoids PHY firmware upgrade. This causes a mismatch between the firmware bundled in the image and that programmed in the PHY. Due to this mismatch any new features claimed by the new software like 1G will not be automatically enabled and needs		

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			a manual upgrade via power-cycle of the line card		

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IOMD_ETHER_GEIM-4-NOT_SUPPORTED_XCVR	4-Warning	1G Transceiver is inserted in slot [dec] for port [dec]. The current linecard phy firmware does not support 1G capability. To upgrade the firmware, perform physical OIR of the line card or use the CLI: hw-module subslot [dec]/0 oir power-cycle		INVALID	To upgrade to latest phy firmware, do physical OIR or soft OIR of the line card using CLI: hw-module subslot <slot>/<bay> oir power-cycle. To view the present phy firmware version, use the CLI: show platform hardware iomd <slot>/<bay> ethernet_controllers phy <port number> api-version or show firmware version all

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			During ISSU the software does not upgrade the PHY firmware. PHY firmware upgrade needs a reset and will lead to data path down time. Hence software avoids PHY firmware upgrade. This causes a mismatch between the firmware bundled in the image and that programmed in the PHY. Due to this mismatch any new features claimed by the new software like 1G will not be automatically enabled and needs		

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			a manual upgrade via power-cycle of the line card		
IOMD_ETHER_GEIM-4-QSA28_UNSUPPORTED_MODE	4-Warning	On SLOT [dec], QSA28 transceiver plugged into port [dec] configured in 40G mode is not supported. Please remove QSA28 from the port or configure the port as 100G.	QSA28 is supported only on 100G ports.	INVALID	Unplug QSA28 from the port or change the port configuration to 100G.
IOMD_ETHER_GEIM-4-QSA_UNSUPPORTED_MODE	4-Warning	On SLOT [dec], QSA transceiver plugged into port [dec] configured in 100G mode is not supported. Please remove QSA from the port or configure the port as 40G.	QSA is supported only on 40G ports.	INVALID	Unplug QSA from the port or change the port configuration to 40G.
IOMD_ETHER_GEIM-4-REMOVE_XCVR	4-Warning	Unplug the transceiver in interface [chars], keeping transceiver can have impact on other transceiver in the same port-group	Inserting an incompatible transceiver is not recommended since it can have impact on other transceiver in the same port-group	INVALID	Unplug the incompatible transceiver
IOMD_ETHER_GEIM-4-UNSUPPORTED_TRANSCEIVER	4-Warning	On SLOT [dec], Transceiver plugged into port [dec] is not supported. Please remove the transceiver.	It's not recommended to insert unsupported transceivers.	INVALID	Unplug the transeiver.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IOMD_ETHER_GEIM-5-LINK_INCONSISTENCY	5-Notice	Inconsistency detected between hardware and software parameters in slot [dec] for ports [chars], restoring the consistency. Link flap or traffic drop might be observed on these ports during this process	During switchover or ISSU, if the serdes parameters are different in active and standby, these parameters will be reprogrammed. This may result in link flap or traffic drop momentarily	INVALID	No action is required
IOMD_ETHER_GEIM-5-MODULE_REINIT_REQUIRED	5-Notice	Hardware parameters on PHY for slot [dec] need modification, Which may have an impact on link and traffic during switchover. User intervention is required to fix the problem by reloading slot [dec]. Use the command 'hw-module subslot [dec]/0 oir power-cycle' to reset the slot during maintainance	Hardware parameters need to be updated on PHY. Due to hardware limitation these parameters cannot be applied dynamically. For applying these parameters we need reload linecard	INVALID	Perform Linecard reload by using below command so that parameter changes get commited to hardware. If this step is not performed then you may face a link flap and traffic loss during switchover Command : hw-module subslot <slot>/0 oir power-cycle

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
IOMD_ETHER_GEIM-6-STBY_PORTS_INITIALIZED	6-Information	Interfaces on slot [dec] are initialized on standby and ready for switchover	All the interfaces on standby for particular slot is initialized and Interface are ready for switchover.	INVALID	No action is required.
IOMD_ETHER_GEIM-6-UNSUPPORTED_MODE	6-Information	On SLOT [dec] QSFP transceiver plugged into 40G port [dec] and a QSA module plugged into port [dec] is unsupported combination. To linkup the desired connections, please remove QSFP transceiver from port [dec] as well as QSA module from port [dec] and then insert only the required QSFP transceiver or QSA module in the respective port.	Due to a hardware limitation in PHY, QSFP Optics on top port and QSA module on bottom port is not supported	INVALID	Unplug the error disabled transceiver
IOMD_INFRA-3-I2C_READ	3-Error	An I2C read has failed because [chars]	An I2C read has failed. This could be due to a hardware or software defect.	asr900-im	Note the time of the error message and examine the logs for I2C 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.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
IOMD_INFRA-3-I2C_WRITE	3-Error	An I2C write has failed because [chars]	An I2C write has failed. This could be due to a hardware or software defect.	asr900-im	Note the time of the error message and examine the logs for I2C 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.
IOMD_INFRA-3-INTR_EVENT	3-Error	IOMd fast thread event ([dec]).	IOMd fast thread event	asr900-im	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.html or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IOMD_INFRA-3-INVALID_BAY_NUM	3-Error	An invalid bay number is specified in one of the internal APIs. bay=[dec] max_bay=[dec]	Invalid bay number to find the TDL domain	asr900-im	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
IOMD_INFRA-3-INVALID_SLOT_NUM	3-Error	An invalid slot number is specified in one of the internal APIs. slot=[dec] max_slot=[dec]	Invalid slot number to find the TDL domain	asr900-im	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IOMD_INFRA-3-IPCALLOCFAIL	3-Error	Failed to allocate IPC buffer [chars]	The IM failed to allocate a buffer for communication with RSP	asr900-im	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
IOMD_INFRA-3-IPCSENDFAIL	3-Error	IOMD failed to send a message [chars] reason: [chars]	IOMD failed to send message to the RP	asr900-im	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?referring_site=bugtool or contact your Cisco technical support representative and provide the representative with the gathered information.
IOMD_INFRA-3-LINECARDDIAGSFAILED	3-Error	Module [chars] in Slot [dec] failed online diagnostics. Please use 'show post' for more details	Online Diag has failed. This could be due to a hardware or software defect.	asr900-im	Note the time of the error message and examine the logs for 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IOMD_INFRA-3-SVL_SPEED_MISMATCH	3-Error	Speed of SVL Port [dec] in Slot [dec] does not match with other SVL Links. Please take neccessary action.	Speed of this SVL Link does not match with the speed of other SVL Links This can be due to replacement of a cable with different Speed on SVL port.	asr900-im	Please check the operating speed of this SVL Link and the operating speed of the other SVL Links.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.
IOMD_INFRA-4-BADPOINTER	4-Warning	Function [chars] detected an invalid [chars] pointer of %08lX, ignoring	A software error has occurred, this message is displayed when an invalid pointer is detected.	asr900-im	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IOMD_INFRA-4-FAN_ALARM	4-Warning	Interface [chars], fan alarm [chars]	Fan alarm due to temperature	INVALID	For MINOR, action is <fill minor action> For MAJOR, action is <fill major action> For CRITICAL, action is <fill critical action>
IOMD_INFRA-4-INTR_OVER_LIMIT	4-Warning	IOMd main thread disabled interrupt for [dec] msec.	IOMd main thread process disabled interrupt too long	asr900-im	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IOMD_INFRA-4-LC_OIR_REQD	4-Warning	Found mismatch between the line card Phy firmware versions bundled in software and programmed in hardware in slot [dec]. To upgrade the Phy firmware to version bundled in software, perform physical OIR of the line card or run the CLI: hw-module subslot [dec]/[dec] oir power-cycle. If ISSU is in progress, firmware upgrade should be done only after the completion of ISSU. To check the firmware versions, use the CLI: show firmware version all		INVALID	To upgrade to latest phy firmware, do physical OIR or soft OIR of the line card using CLI: hw-module subslot <slot>/<bay> oir power-cycle. To view the present phy firmware version, use the CLI: show platform hardware iomd <slot>/<bay> ethernet_controllers phy <port number> api-version or show firmware version all

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			During ISSU the software does not upgrade the PHY firmware. PHY firmware upgrade needs a reset and will lead to data path down time. Hence software avoids PHY firmware upgrade. This causes a mismatch between the firmware bundled in the image and that programmed in the PHY. Due to this mismatch any new features claimed by the new software will not be automatically enabled and needs a manual		

Facility-Severity-Mnemonic	Severity-Meaning	Message	Message-Explanation	Component	Recommended-Action
			upgrade via power-cycle of the line card		
IOMD_INFRA-6-BEACON_LED_TURNED	6-Information	Slot [dec] Port [dec] Beacon LED turned [chars]	Beacon LED turned ON/OFF. This is a notification message only.No action is required.	INVALID	This is a notification message only. No action is required.
IOMD_INFRA-6-HIGH_POWER_OPTICS_DETECTED	6-Information	The port [chars] supports optics with a max power of [dec].[dec] W, but inserted optics max power is [dec].[dec] W. This can lead to operational issues for these and neighbouring ports. To identify allocated port max power, please execute the CLI: [chars]	Due to a thermal limitation, insertion of High power QSFP/SFP Optics in this port is not suggested.	INVALID	Unplug the high power XCVR.
IOMD_INFRA-6-HIGH_POWER_OPTICS_PRESENT	6-Information	The line card [dec] has optic(s) inserted in port(s) that has power limitations. The optics max power is more than the power recommended. This can lead to operational and thermal issues for these and neighbouring ports. To identify allocated port max power, please execute the CLI: [chars]	Due to a thermal limitation, insertion of High power QSFP/SFP Optics in some ports is not advised.	INVALID	Unplug the high power XCVR.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
IOMD_INFRA-6-STBY_PORTS_INITIALIZED	6-Information	Interfaces on slot [dec] are initialized on standby and ready for switchover	All the interfaces on standby for particular slot is initialized and Interface are ready for switchover.	INVALID	No action is required.
IOMD_INFRA-6-TDLMSG_INCOMPATIBLE	6-Information	Failed to copy message [chars] to buffer, not allowed for current domain.	Failure to marshal a message indicates an incompatibility with the intended recipient.	asr900-im	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity-Meaning	Message	Message-Explanation	Component	Recommended-Action
IOMD_INFRA-6-UNSUPPORTED_MODE	6-Information	Transceiver module in [chars] going in err-disabled state.	Breakout optics is not supported in non-breakout port; Non-breakout optics is not supported in breakout port	INVALID	Unplug the error disabled transceiver
IOMD_INFRA-6-UNSUPPORTED_MODE_BREAKOUT	6-Information	Transceiver module in [chars] going in err-disabled state.	Breakout optics is not supported in non-breakout port; Non-breakout optics is not supported in breakout port	INVALID	Unplug the error disabled transceiver
IOMD_INFRA-6-UNSUPPORTED_SPEED_COMBINATION	6-Information	On SLOT [dec] QSFP 100G/40G transceiver plugged into port [dec] and a QSA module plugged into port [dec] is unsupported combination. To linkup the desired connections, please remove QSFP transceiver from port [dec] as well as QSA module from port [dec] and then insert only the required QSFP transceiver or QSA module in the respective port.	Due to a hardware limitation in PHY, QSFP Optics on top port and QSA module on bottom port is not supported	INVALID	Unplug the error disabled transceiver

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IOMD_STARFLEET-5-LINK_RECOVERY	5-Notice	Interface [chars] link recovery mechanism triggered [Reason: System Side Signal down]	Link recovery mechanism detected a system side signal issue on UADP transmit. Recovery mechanism was triggered for correcting it.	INVALID	No action is required.
IOSD-3-BIPC_REJECT	3-Error	Could not accept ipc connection: [chars]	This error occurs if shell-manager has denied an ipc connection request from IOS.	iosxe-shell-mgr	Check the connection request parameters.
IOSD-3-TDL_PROPERTIES	3-Error	Could not set message properties for connection: [chars]	This error occurs if shell-manager is unable to set message properties for the IOS-sman connection	iosxe-shell-mgr	Check the connection request parameters.

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
IOSXE_UPGRADE_ROMMON-0-ROMMON_LOADTEST_FAIL	0-Emergency	ROMMON FIPS_140-3 Load test *FAILED*: file [chars]	FIPS 140-3 Related Load test failed for the ROMmon.	iosxe-bmcs-utils	Check the system messages to see if any messages appeared that might indicate the source of the ROMmon Load test problem. If you do not find any additional information indicating a correctable problem, collect all output on the screen, in particular the console port output after the upgrade rom-monitor command was entered and the output of show rom-monitor, and provide the collected information to a Cisco technical support representative.
IOSXE_UPGRADE_ROMMON-0-ROMMON_UPGRADE_FAIL	0-Emergency	ROMMON upgrade failed: partition [chars]	An attempt to upgrade the ROMmon failed.	iosxe-bmcs-utils	Check the system messages to see if any messages appeared that might indicate the source of the ROMmon problem. If you do not find any additional information indicating a correctable problem, collect all output on the screen, in particular the console port output after the upgrade rom-monitor command was entered and the output of show rom-monitor, and provide the collected information to a Cisco technical support representative.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IOXCAF-5-GUESTSHELL_IPV4_NOTICE	5-Notice	guestshell ip address([chars]) of Mgmt-Intf is ignored.	The ipv4 address configured for guestshell's Mgmt-Intf is ignored. When guestshell is on Mgmt-Intf it is natted and has an internal 192.168 ipv4 address.	polaris-infra	No action is required
IOXCAF-5-GUESTSHELL_IPV6_NOTICE	5-Notice	guestshell ipv6 address([chars]) of Mgmt-Intf is ignored.	The ipv6 address configured for guestshell Mgmt-Intf is ignored. When guestshell is on Mgmt-Intf it is natted and has an internal 192.168 ipv4 address. Therefore there is no need to provide a static ipv6 address to guestshell interfaces.	polaris-infra	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
IOXCAF-6-INSTALL_MSG	6-Information	app-hosting: [chars]	Message for installing an app.	polaris-infra	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.
IOXCAF-6-UPGRADE_MSG	6-Information	app-hosting: [chars]	Message for upgrading an app.	polaris-infra	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.
IOXMGR-2-DNAC_EGRESS_INTF_NOT_SVI	2-Critical	Not supported: egress interface ([chars]) towards Cisco-DNAC server [chars] is not an SVI	Egress interface to reach the Cisco-DNAC server is restricted to be an SVI	ewlc-iot-gw	If this message occurs, the egress interface towards the Cisco-DNAC server needs to be configured as an SVI
IOXMGR-2-DNAC_EGRESS_INTF_NO_GLOB_IPV6_ADDR	2-Critical	Cisco-DNAC configured address is IPv6, but no global IPv6 address configured on egress interface [chars]	At least one local IPv6 global/routable address is needed to reach the Cisco-DNAC server	ewlc-iot-gw	If this message occurs, at least one IPv6 global address needs to be configured on the egress interface towards the Cisco-DNAC server.
IPC_ERRMSG-4-IPC_WARNING_TRACE	4-Warning	Warning, [chars]	General warning message with traceback	ewlc-app-infra	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
IPC_LOG-3-IPC_LOGWRITE_FAILED	3-Error	ipc log write [dec] bytes failed because [chars]	An internal logging mechanism failed to write a message.	ios-ipc-util	No action is required. However, if router performance is noticeably degraded, contact Cisco Technical Assistance. Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
ISSU-0-BOOT_SYNC_FAIL	0-Emergency	Problem with sync of ISSU boot state - [chars]	The ISSU state between two FRUs is not properly synchronized as a result of a boot error.	iosxe-bmcs-utils	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	0-Emergency	Reason: [chars]	A software consolidated package or sub-package has an error that indicates the sub-package should not be installed or used.	iosxe-bmcs-utils	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.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
ISSU-0-PKG_MNT_SCRIPT_FAIL	0-Emergency	Package: [chars]	A consolidated package or sub-package has encountered an error indicating it is not usable.	iosxe-binos-utils	Upgrade your software using a different consolidated package or sub-package.
ISSU-0-RESET_FRU_FAIL	0-Emergency	Problem with ISSU reset of remote FRU - [chars]	After a sub-package installation, one or more FRUs that were upgraded failed to initialize within the timeout period.	iosxe-binos-utils	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-0-SOFTWARE_INVALID	0-Emergency	Package for location [chars]: [chars]	The sub-packages have encountered an error related to the structure of the loaded software.	iosxe-binos-utils	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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
ISSU-3-BOOT_SYNC	3-Error	Problem with sync of ISSU boot state - [chars]	The ISSU state between two FRUs is not properly synchronized as a result of a boot error.	issu-infrastructure	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-3-BOOT_UNCLEAN	3-Error	Found reload log file, moved to [chars]	A log file was found at bootup indicating that all shutdown tasks were not performed on a previous reload.	issu-infrastructure	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
ISSU-3-INCOMPAT	3-Error	The packages in [chars] are not consistent	The sub-packages specified for running on the chassis are not compatible with one other.	iosxe-install	Install a compatible set of packages to allow normal operation. This will require booting a known-good package set.
ISSU-3-ISSU_COMP_CHECK_FAILED	3-Error	ISSU compatibility check failed for [chars]	The image is not ISSU compatible	polaris-issu-infra	Please add another ISSU compatible image to start ISSU
ISSU-3-SYNC_ERR	3-Error	Problem with sync of state - [chars]	The software state between two FRUs or switches is not properly synchronized as a result of a boot error.	iosxe-install	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
ISSU-3-UCODE_INCOMPAT	3-Error	Found mismatch for ucode feature - [chars]	During boottime microcode feature version check, a version mismatch was found for this feature.	iosxe-infra-issu	Please ensure that versions of features in microcode are compatible by provisioning a different set of microcode files.
ISSU-5-ISSU_AUTO_ROLLBACK	5-Notice	ISSU rollback timer expired: initiating rollback	An ISSU upgrade has been rolled back because the rollback timer has expired.	iosxe-infra-issu	No user action is needed. If you want to commit the ISSU upgrade, redo the upgrade. Otherwise, this is an informational message only.
ISSU-5-ISSU_STAGE_INFO	5-Notice	STAGE [chars]: [chars] [chars]\n	This message is used to indicate the start/completion of ISSU stages.	platform-issu-infra	No action required. This is an indication that ISSU stage has started or completed
ISSU-5-ISSU_STATE_INVALID	5-Notice	ISSU stored state found invalid and cleaned up: [chars]	The RP has corrected a failed ISSU install state that was detected at bootup.	iosxe-infra-issu	No user action is necessary. This is an informative message indicating that the failed ISSU state has been corrected.

K to O

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
KMAN_DB_ERRMSG-3-DB_HOG	3-Error	Holding [chars] lock of <[chars]> for [dec] ms	The KMAN process was holding the DB lock for too long, which may block other processes.	iosxe-hostmgr	Collect the system log using CLI 'show logging'.
KMAN_DB_ERRMSG-3-NEST_LOCK	3-Error	Nested lock: try to lock <[chars]> while holding lock <[chars]>	Nested lock detected.	iosxe-hostmgr	Collect the system log using CLI 'show logging'.
KMAN_DB_ERRMSG-3-UNEXPECTED	3-Error	Error on lock <[chars]>: [chars]	Unexpected error when manipulating DB lock.	iosxe-hostmgr	Collect the system log using CLI 'show logging'.
KMAN_DB_ERRMSG-4-DB_STARVE	4-Warning	Waiting [chars] lock of <[chars]> for [dec] ms	Current process was waiting for the DB lock for too long	iosxe-hostmgr	Collect the system log using CLI 'show logging'.
LA_ACL_ERRMSG-3-ACL_EDIT_ERROR	3-Error	Failed to program modified [chars] [chars] [chars] ACL in hardware. The number of ACEs exceeded hardware limit.\n	The configuration is too large.	INVALID	You have exceeded the system limit of ACE entries. Delete the ACL first and then modify the acl by reducing number of ACEs and re-configure the ACL on the box.\n
LA_ACL_ERRMSG-3-ACL_NOT_SUPPORTED	3-Error	ACL is not supported on this interface [chars].\n	Unsupported configuration	INVALID	ACL is not supported on this interface %s.Remove the ACL from interface on IOS\n

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
LA_ACL_ERRMSG-3-ACL_SGACL_CELL_OOR_ERROR	3-Error	Out Of Resource: SGACL [chars] on cell ([dec] [dec]) is not allowed. sgacl_id resource exhausted \n	Invalid configuration.	INVALID	SGACL policy cannot be applied, ran out of sgacl_ids . \n
LA_ACL_ERRMSG-3-EPC_EOMPLS_ERROR	3-Error	EPC is not supported on EOMPLS port. To recover, stop the capture from [chars] interface.\n	Unsupported configuration	INVALID	Stop the capture from %s interface..\n
LA_ACL_ERRMSG-3-OGACL_EGRESS_ERROR	3-Error	OGACL is not supported in egress dir. To recover, Delete [chars] ACL [chars] proto , correct mistake and re-create ACL.\n	Invalid configuration	INVALID	Delete ACL , correct mistake and re-create ACL.\n
LA_ACL_ERRMSG-4-UNLOADED	4-Warning	[chars] [chars] [chars] [chars] ACL on interface [chars] could not be programmed in hardware.Either number of ACLs or number of ACES in acl exceeded hardware limit. All the packets will be dropped.\n	The configuration is too large.	INVALID	You have exceeded the system limit of entries, use a simpler configuration which uses less entries.It can be either number of ACLs or number of ACES in the acl.\n
LA_ACL_ERRMSG-6-SUB_INTF_BIND_WARNING	6-Information	[chars] [chars] [chars] ACL on interface [chars] could not be programmed in hardware. VLAN is not ready in hardware. Once VLAN is ready, ACL will be attached to vlan automatically in hardware.\n	Invalid configuration.	INVALID	VLAN is not ready in hardware.Once VLAN is ready, ACL will be attached to vlan automatically in hardware. Worst case, first detach ACL from sub-interface. Configure vlan on this sub-interface if not already done and then reattach ACL \n

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LA_FNF_ARGON_ERRMSG-4-OOR	4-Warning	[chars] [chars] FNF mon_id [dec] on interface [chars] could not be programmed in hardware.Either number of ACLs or number of ACES in flow monitor or netflow profile exceeded hardware limit.\n	The configuration is too large.	INVALID	You have exceeded the system limit of entries, use a simpler configuration which uses less entries. It can be either number of ACLs or number of ACES in the acl.\n
LA_L2_ERRMSG-3-MCID_EMDB_RSC_ERR	3-Error	Failed to allocate replication entry to do flooding for vlan: [dec], vp_if_id: 0x%lx - reason: [chars]	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
LA_L2_MCAST_ERRMSG-3-MCID_EMDB_RSC_ERR	3-Error	Failed to allocate replication entry for vlan: [dec], Group: [chars], vp_if_id: 0x%lx - reason: [chars]	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
LA_L2_MCAST_ERRMSG-3-MCID_RSC_ERR	3-Error	Failed to allocate mcid for vlan: [dec], Group: [chars] - reason: [chars]	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.
LA_L3TUNNEL_ERRMSG-3-EXIST_ERROR	3-Error	Duplicate Tunnel config not supported\n	Same tunnel source and destination	INVALID	Delete the tunnel and move to unique src/dst combination\n
LA_L3TUNNEL_ERRMSG-3-OOR_ERROR	3-Error	Unique 16 sources and 1K Tunnels only supported\n	Too many tunnels	INVALID	Delete unwanted tunnels\n
LA_L3TUNNEL_ERRMSG-3-TUN_MOD_ERROR	3-Error	Please delete the tunnel and recreate it. Set the tunnel mode first and then configure the tunnel src and tunnel destination. Dynamic change to Tunnel mode not allowed.\n	Dynamic Tunnel mode change not allowed	INVALID	Delete Tunnel. Set the correct mode and then configure tunnel src and tunnel dst\n
LA_L3_ERRMSG-3-MDT_ENCAP_RSC_ERR	3-Error	Failed to allocate mdt encap entry for adj: [dec] - reason: [chars]	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
LA_L3_ERRMSG-6-UNSUPPORTED_LB	6-Information	Mixed Mode of Tunnel and Normal ADJ Unsupported in LB, lbal_obj_id: 0x%x.\n	Mixed Mode of Tunnel and Normal ADJ is Unsupported in LB. We are printing the lbal_obj_id which is effected	INVALID	Normal Adj will be removed from LB if Tunnel is present. Only Tunnel adj will be present for LB
LA_QOS_ERRMSG-3-LA_QOS_SCH_BANDWIDTH_REMAINING_RATIO_IGNORED	3-Error	Ignoring Non-default[Ratio=1], Interface level Bandwidth remaining ratio([dec]) on Main-interface [chars] for policy [chars]. Reason: No support\n	Interface level(HQOS) Bandwidth remaining ratio is supported only across sub-interface on same main-interface or among main-interface with sub-interface priority propagation mode enabled and its sub-interface.	bigbang-qos	No Specific action required. However, for clarity user can consider installing different policy without Bandwidth remaining ratio in parent policy.
LA_QOS_ERRMSG-3-LA_QOS_TCAM_OOR	3-Error	No TCAM availabe to program policy [chars] on interface [chars] on [chars] direction.\n	TCAM is full on the slice where the interface is on.	bigbang-qos	Reduce the number of ACE in the policy. Remove the policy and attach again.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LA_QOS_ERRMSG-3-LA_QOS_VOQ_CGM_PROFILE_EXHAUSTED	3-Error	VOQ Congestion Mangement(CGM) profiles exhausted.\n	All the available 32 VOQ CGM Profiles have been used up and a new profile creation was attempted	bigbang-qos	Check all queueing policies for unique CGM Configuration. See if some can be combined to free some CGM Profiles
LA_QOS_ERRMSG-4-LA_QOS_HQOS_PORTSHAPER_GREATER_THAN_INTERFACE_SPEED	4-Warning	For [chars], User configured port shaper speed[[dec]] is greater than physical port speed [[dec]]. Limiting the same to physical port speed\n	User configured port shaper in H-QOS policy is higher than physical interface speed. User needs to revisit the policy.	bigbang-qos	No Specific action required. However, user needs to revisit the policy.
LA_SGACL_ERRMSG-3-SGACL_CELL_BIND_ERROR	3-Error	SGACL [chars] on cell ([dec] [dec]) is not allowed. SGACL policy of default cell is not allowed to be shared with any other cells \n	Invalid configuration.	INVALID	SGACL policy associated with default cell is non-sharable with other cells. Maintain a separate policy for default permission. \n

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LA_SGACL_ERRMSG-3-SGACL_CELL_MONITOR_WARNING	3-Error	This platform supports only one counter per cell. User attached both V4 & V6 policies to cell [[dec], [dec]] but monitor mode is set to only one protocol. This may lead to inaccurate Hw-Deny, HW-Monitor cell counters. There will be no effect on functionality\n	Invalid configuration.	INVALID	Configure monitor mode for both IPv4 & IPV6 \n
LA_SGACL_ERRMSG-3-SGACL_CELL_OOR_ERROR	3-Error	Out Of Resource: SGACL [chars] on cell ([dec] [dec]) is not allowed. TCAM is exhausted \n	Invalid configuration.	INVALID	SGACL policy cannot be applied, ran out of TCAM Space . \n
LA_SGACL_ERRMSG-3-SGACL_CELL_TABLE_OOR_ERROR	3-Error	Out Of Resource: SGACL cgid:[dec] on cell ([dec] [dec]) is not allowed. Entries in SGACL_CELL_TABLE are exhausted \n	Configuration is exceeding max limits in table.	INVALID	SGACL policy cannot be applied, SGACL_CELL_TABLE is full. \n
LA_SGACL_ERRMSG-3-SGACL_DEFAULT_CONFIG_ERROR	3-Error	TCAM Resource Error. Default permission configuration failed. Delete default sgacl permissib ons, free up some TCAM resources and configure default permission again\n	Configuration is too big	INVALID	Delete sgacl default permissions. Free up some TCAM resources and configure default permissions again\n
LA_SGACL_ERRMSG-3-SGACL_EDIT_ERROR	3-Error	Failed to program modified [chars] [chars] [chars] ACL in hardware. The number of ACEs exceeded hardware limit.\n	The configuration is too large.	INVALID	You have exceeded the system limit of ACE entries. Delete the ACL first and then modify the acl by reducing number of ACEs and re-configure the ACL on the box.\n

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LCHA_CLIENT-3-CLIENT_CREATION	3-Error	lcha client [dec]/[dec] ([chars]) creation failed: [chars]	LCHA client creation failed.	iosxe-hostmgr	Check platform and process memory status. Check core files and crashinfo files.
LCHA_CLIENT-3-CLIENT_DESTROY	3-Error	lcha client [dec]/[dec] ([chars]) remove failed: [chars]	LCHA client remove failed.	iosxe-hostmgr	Collect the system log using CLI 'show logging', and LCHA log on SUP using CLI 'show lcha logging level noise'. Collect the lchaman, iosd-clc, cdman, vidman btrace logs.
LCHA_CLIENT-3-DOMAIN_CREATION	3-Error	lcha domain [dec] creation failed: [chars]	LCHA domain creation failed.	iosxe-hostmgr	Check platform and process memory status. Check core files and crashinfo files.
LCHA_CLIENT-3-EXTEND_TIMER	3-Error	lcha client [dec]/[dec] event [dec] timer extension failed: [chars]	LCHA client timer extension failed.	iosxe-hostmgr	Collect the system log using CLI 'show logging', and LCHA log on SUP using CLI 'show lcha logging level noise'. Collect the lchaman, iosd-clc, cdman, vidman btrace logs.
LCHA_CLIENT-3-MSG_DISPATCH_ERR	3-Error	lcha client connection with [chars] message dispatch failed: [chars]	LCHA client message dispatch failed.	iosxe-hostmgr	Collect the system log using CLI 'show logging', and LCHA log on SUP using CLI 'show lcha logging level noise'. Collect the lchaman, iosd-clc, cdman, vidman btrace logs.
LCHA_CLIENT-3-MSG_HANDLER_ERR	3-Error	lcha client [chars] message failed: [chars]	LCHA client message handling failed.	iosxe-hostmgr	Collect the system log using CLI 'show logging', and LCHA log on SUP using CLI 'show lcha logging level noise'. Collect the lchaman, iosd-clc, cdman, vidman btrace logs.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
LCHA_CLIENT-3-MSG_TX_ERR	3-Error	lcha client [chars] message not sent to [chars]; reason [chars]	LCHA client message sending failed.	ios-ha-mgr	Collect the system log using CLI 'show logging', and LCHA log on SUP using CLI 'show lcha logging level noise'. Collect the lchaman, iosd-clc, cdman, vidman btrace logs.
LED-2-DB_HA_ERROR	2-Critical	Database HA Error, Led id [dec]	This is an internal software error.	ios-ha-mgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LED-2-GQILIB_INIT_FAILED	2-Critical	Failed to init GQI Lib, Led id [dec]	This is an internal software error.	iosxe-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/en/US/support/tsd_cisco_worldwide_contacts.html or contact your Cisco technical support representative and provide the representative with the gathered information.
LED-2-ID_MISMATCH	2-Critical	LED ID mismatch Led id - [dec], Instance - [dec]	This is an internal software error.	iosxe-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/en/US/support/tsd_cisco_worldwide_contacts.html or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LED-2-INIT_FAILED	2-Critical	Video LED process initialization failed id [dec]	Initialization of the Video LED process failed. This is an internal software error.	ios-xe-host-mgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/en/US/support/tsd_cisco_worldwide_contacts.html or contact your Cisco technical support representative and provide the representative with the gathered information.
LED-2-INVALID_PSI_TYPE	2-Critical	Invalid PSI type, Led id [dec]	This is an internal software error.	ios-xe-host-mgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/en/US/support/tsd_cisco_worldwide_contacts.html or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LED-2-OUT_OF_CONTEXT_ERROR	2-Critical	LED Fell out of context loop, Led id [dec]	This is an internal software error.	ios-xe-host-mgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/en/US/support/tsd_cisco_worldwide_contacts.html or contact your Cisco technical support representative and provide the representative with the gathered information.
LED-2-RESOURCE_ALLOCATION	2-Critical	Failed to Allocate memory, Led id [dec]	This is an internal software error.	ios-xe-host-mgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/en/US/support/tsd_cisco_worldwide_contacts.html or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
LED-2-TBLLIB_INIT_FAILED	2-Critical	Failed to init Table-based Lib, Led id [dec]	This is an internal software error.	ios-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/en/US/support/tsd_cisco_worldwide_contacts.html or contact your Cisco technical support representative and provide the representative with the gathered information.
LED-2-VDMAN_IPC_INIT_FAILED	2-Critical	Vidman IPC initialization failed id [dec]	Initialization of the Video LED process failed. This is an internal software error.	ios-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/en/US/support/tsd_cisco_worldwide_contacts.html or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
LED-2-VIPC_INIT_FAILED	2-Critical	VIPC initialization failed id [dec]	Initialization of the Video LED process failed. This is an internal software error.	iosxe-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.
LED-2-VIPC_SEND_FAILURE	2-Critical	VIPC send failed, Led id [dec]	This is an internal software error.	iosxe-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
LED-3-CONSOLE_SETUP_FAILED	3-Error	Failed to setup console service. It should be enabled on [chars]	Setup of a console service failed. This is a possible cBR8 provisioning error.	iosxe-hostmgr	Check the host manager launch parameters and correct as required.
LED-3-LED_IPC_FLOW_CONTROL	3-Error	Flow control turned [chars] for VIPC port [dec], remote port [dec], remote slot [dec]	Flow control triggered on IPC link between LED and VDMAN.	iosxe-hostmgr	Check the LED btrace logs
LED-3-VIDEO_SOURCE_CHANGE_FAILED	3-Error	Video Multicast Source Switch Failed. Error [dec], Source (0x%x, 0x%x), LED [dec]	Video Input Source failed to switch to the next sourcee.	iosxe-hostmgr	Check the failed input source, and check for service impact
LISP_AGENT_MESSAGE-3-LISP_AGENT_DB_ERROR	3-Error	DB-Error: [chars]	An internal error occurred due to which unable to update the oper DB records	ewlc-wlss-lisp	LOG_STD_ACTION
LISP_AGENT_MESSAGE-3-LISP_AGENT_MAP_REGISTER_MSG_SEND_FAIL	3-Error	Error: Failed to send [chars] to MAP Server for [chars]: %02x%02x%02x%02x%02x%02x	An internal error occurred due to which unable to send Map Register message to MAP server	ewlc-wlss-lisp	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
LISP_AGENT_MESSAGE-4-LISP_AGENT_MAP_REGISTRATION_REJECT_MSG	3-Error	Error: [chars] %02x%02x%02x%02x%02x%02x with rejection code [dec] - [chars], MS IP: [chars], VNID: [chars]	Received MAP Registration Reject Message	cwlc-wlss-lisp	LOG_STD_ACTION
LISP_AGENT_MESSAGE-3-LISP_AGENT_MAP_REPLY_NACK_MSG	3-Error	Error: [chars] %02x%02x%02x%02x%02x%02x	Received MAP reply NACK Message	cwlc-wlss-lisp	LOG_STD_ACTION
LISP_AGENT_MESSAGE-4-LISP_AGENT_MAP_REQUEST_MSG_SEND_FAIL	3-Error	Error: Failed to send [chars] to MAP Server for [chars]: %02x%02x%02x%02x%02x%02x	An internal error occurred due to which unable to send Map Request message to MAP server	cwlc-wlss-lisp	LOG_STD_ACTION
LISP_AGENT_MESSAGE-3-LISP_AGENT_MS_IP_ERROR	3-Error	LISP AGENT clear [chars]	Map Server msg stats not exists error	cwlc-wlss-lisp	LOG_STD_ACTION
LISP_AGENT_MESSAGE-4-LISP_AGENT_RECEIVE_ERROR_NOTIFICATION_MSG	3-Error	Error: Received reliable error notification msg with [chars] [dec]	the Error Notification message received from the MAP Server	cwlc-wlss-lisp	LOG_STD_ACTION
LISP_AGENT_MESSAGE-6-LISP_AGENT_TRANSPORT_MS_CONNECTION	6-Information	[chars] with map server IP [chars]	re-establishment of connection with map server got success	cwlc-wlss-lisp	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LI_CORE-2-EGRESS_INTF_NOT_SVI	2-Critical	Not supported: egress interface ([chars]) towards LI host [chars] is not an SVI	Egress interface to reach the LI host is restricted to be an SVI	ewlc-spwifi	If this message occurs, the egress interface towards the LI host server needs to be configured as an SVI
LI_CORE-2-EGRESS_INTF_NO_GLOB_IPV6_ADDR	2-Critical	LI host address configured is IPv6, but no global IPv6 address configured on egress interface [chars]	At least one local IPv6 global routable address is needed to reach the LI host server	ewlc-spwifi	If this message occurs, at least one IPv6 global address needs to be configured on the egress interface towards the LI host server.
LMLIB_RTU_LICENSE-1-AP_INSUFFICIENT_PERM_APCOUNT	1-Alert	APs connected exceed the permanent licenses available by [dec].	The number of APs connected is greater than the number of permanent licenses.	iosxe-fwdmgr	Purchase adder licenses to add to your existing permanent licenses.
LMLIB_RTU_LICENSE-1-AP_USAGE_EXCEEDED	1-Alert	AP-count license usage has exceeded the available AP-count by [dec].	AP-count license usage has exceeded the available AP-count.	iosxe-fwdmgr	Remove the excess APs from the controller.
LMLIB_RTU_LICENSE-1-EVAL_EXP	1-Alert	Evaluation period of [chars] license expired [dec] days ago. Purchase a permanent license.	The evaluation license has expired.	iosxe-fwdmgr	Purchase a permanent license.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
LMLIB_RTU_LICENSE-1-EXCESS_AP_LIC	1-Alert	Total AP-count licenses available have exceeded the maximum supported AP-count by [dec].	The number of AP-count licenses available is greater than the maximum number of supported AP-count.	iosxe-fwdmgr	The extra AP-count licenses can be moved to another controller.
LMLIB_RTU_LICENSE-1-PRIMARY_REMOVED	1-Alert	The current stack does not support the applied AP License Count. Reconnect a Catalyst 5760 SKU running valid AP License Count within 90 days.	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.	iosxe-fwdmgr	Reconnect a Catalyst 5760 SKU running valid AP License Count within 90 days.
LMLIB_RTU_LICENSE-1-RTU_DISABLED	1-Alert	Cannot proceed. Right-to-use Licensing is diabled. Switch is in Smart Licensing mode.	RTU functionality is disabled when switch in SL mode.	iosxe-fwdmgr	Enable RTU licensing with CLI: no license smart enable.
LMLIB_RTU_LICENSE-1-SKU_INCOMPAT	1-Alert	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	Two AIR-CT5760-HA-K9 SKUs are not supposed to stack.	iosxe-fwdmgr	Replace the license mismatch switch with a Catalyst 5760 SKU running valid AP License Count.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMLIB_RTU_LICENSE-1-TERM_EXP	1-Alert	Subscription term period of [chars] license expired [dec] days ago. Please renew your license.	The subscription license has expired.	iosxe-fwdmgr	Renew your subscription license.
LMLIB_RTU_LICENSE-3-FILE_ERR	3-Error	[chars]: License file update failed. Reapply the configuration.	Failed to update the license file.	iosxe-fwdmgr	Reapply the configuration.
LMLIB_RTU_LICENSE-3-FILE_READ_ERR	3-Error	[chars]: License file read failed.	Failed to read the license file.	iosxe-fwdmgr	Reapply the configuration.
LMLIB_RTU_LICENSE-4-EVAL_WARN	4-Warning	Evaluation period of [chars] license is about to expire in [dec] days. Purchase a permanent license.	The evaluation license is about to expire.	iosxe-fwdmgr	Purchase a permanent license.
LMLIB_RTU_LICENSE-4-TERM_WARN	4-Warning	Subscription term period of [chars] license is about to expire in [dec] days. Please renew your license.	The subscription license is about to expire.	iosxe-fwdmgr	Renew your subscription license.
LMLIB_RTU_LICENSE-6-AP_ADD	6-Information	[dec] adder AP-count licenses are added	AP-count licenses have been added.	iosxe-fwdmgr	More APs can be supported.
LMLIB_RTU_LICENSE-6-AP_DEL	6-Information	[dec] adder AP-count licenses are removed.	AP-count licenses have been removed.	iosxe-fwdmgr	Fewer APs are supported.
LMLIB_RTU_LICENSE-6-DISABLE_RTU	6-Information	[chars]: Right-to-use Licensing is disabled. Switch is in Smart Licensing mode.	User enables Smart Licensing.	iosxe-fwdmgr	Request image license license if needed.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMLIB_RTU_LICENSE-6-ENABLE_RTU	6-Information	[chars]: Right-to-use Licensing is enabled. Switch is in RTU mode.	User configures RTU licensing by disabling Smart Licensing.	iosxe-fwdmgr	Configure image license and ap count license if needed.
LMLIB_RTU_LICENSE-6-FACTORY_DEFAULT_ERROR	6-Information	Factory Default License File [chars] on [chars].	An error occured when trying to create the factory default file.	iosxe-fwdmgr	Fix the issue and try again.
LMLIB_RTU_LICENSE-6-IOSD_LIC_MISMATCH	6-Information	Switch #[dec]: Current IOSd runs on [chars] license while RTU active license is [chars]. Please configure RTU license to current IOSd license.	When customer switches license mode from Smart Licensing to RTU Licensing, current IOSd license might mismatch with RTU active license.	iosxe-fwdmgr	Configure RTU license level to current IOSd license.
LMLIB_RTU_LICENSE-6-LIC_ACT	6-Information	[chars] license is activated successfully on [chars].	The license level is activated.	iosxe-fwdmgr	Reboot the switch to invoke the activated license.
LMLIB_RTU_LICENSE-6-LIC_ACTVED	6-Information	[chars] license was already activated.	The license level was already activated.	iosxe-fwdmgr	Reboot the switch to invoke the activated license.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMLIB_RTU_LICENSE-6-LIC_CHANGE	6-Information	[chars] reboot license level changed from [chars] to [chars]. Reboot the switch to invoke the new license level.	Reboot license level has been changed.	iosxe-fwdmgr	Reboot the switch to invoke the activated license level.
LMLIB_RTU_LICENSE-6-LIC_EULA_CLEAR	6-Information	EULA for [chars] license has been cleared on [chars].	License level has been deactivated.	iosxe-fwdmgr	The end user license agreement (EULA) needs to be accepted while activating this license level.
LMLIB_RTU_LICENSE-6-LIC_EVAL_TO_PERM	6-Information	License level upgraded from [chars] [chars] to [chars]; [chars] license is in-use without reboot	A license has been upgraded to a permanent or subscription license. A reboot is NOT required for the new license level to be effective.	iosxe-fwdmgr	No action is required
LMLIB_RTU_LICENSE-6-LIC_EXPED	6-Information	[chars] evaluation license has expired; you cannot activate it again.	You cannot use an expired evaluatoin license.	iosxe-fwdmgr	Purchase a permanent license level or activate another license level.
LMLIB_RTU_LICENSE-6-LIC_IMAGE_INVALID	6-Information	Switch #[dec]: The license boot level string is invalid. Boot up with the highest activated license.	The license boot level string is invalid. The RTU highest activated license is used.	iosxe-fwdmgr	Use 'license boot level' to configure a valid license level

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
LMLIB_RTU_LICENSE-6-LIC_INCOMPAT	6-Information	Switch [dec] has an incompatible license level. Activate a compatible license on the switch so that the switch can join the stack.	The added switch has an incompatible license level.	iosxe-fwdmgr	Activate a new license and reboot the switch.
LMLIB_RTU_LICENSE-6-LIC_INVALID_DEACT	6-Information	[chars] license is not active on [chars]; therefore, it cannot be deactivated.	The license level is not activated.	iosxe-fwdmgr	No need to deactivate this license.
LMLIB_RTU_LICENSE-6-PLAT_INCOMPAT	6-Information	Switch [dec] has an incompatible platform level. Activate a compatible platform on the switch so that the switch can join the stack.	The added switch has an incompatible platform level.	iosxe-fwdmgr	Run in compatible scaled mode and reboot the switch.
LMRP-0-CHASFS_LOCATION_TRANSLATE	0-Emergency	Failed to translate a location to a chasfs object name because [chars]	The license manager failed to translate a location to a chasfs object name.	iosxe-csl	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMRP-0-CHASFS_OBJECT_CREATE	0-Emergency	Failed to create chassis filesystem object [chars] because [chars]	The hardware failed to create a chassis filesystem object.	iosxe-csl	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	0-Emergency	Expected chassis filesystem object [chars] not present.	A chassis filesystem object expected to be present is not. This could be due to a software defect or filesystem failure.	iosxe-csl	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	0-Emergency	Failed to watch chassis filesystem object [chars] because [chars]	A chassis filesystem object was not watched because of the reason stated in the error message.	iosxe-csl	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMRP-0-CHASFS_PROPERTY_CREATE	0-Emergency	Failed to create chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property was not properly created.	iosxe-csl	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	0-Emergency	Failed to read chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property was not properly read by the system.	iosxe-csl	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	0-Emergency	Expected chassis filesystem object [chars] property [chars] not present.	A chassis filesystem object property expected to be present is not. This could be due to a software defect or filesystem failure.	iosxe-csl	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMRP-0-CHASFS_PROPERTY_SET	0-Emergency	Failed to write chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property failed to write.	iosxe-csl	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_STATUS	0-Emergency	Failed to get chassis hardware status because [chars]	The system failed to get the chassis hardware status.	iosxe-csl	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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
LMRP-0-CHASSIS_TYPE	0-Emergency	The chassis type [chars] is invalid.	The chassis type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.	iosxe-csl	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-EVENT_LIBRARY	0-Emergency	An event facility initialization or maintenance function failed because [chars]	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	iosxe-csl	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMRP-0-INVALID_ARGUMENT	0-Emergency	A system function was given an invalid argument.	A system function was given an invalid argument. This is due to a software defect.	iosxe-csl	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	0-Emergency	An IPC connection has invalid state.	An IPC connection has an invalid state. This could be due to a software defect or system resource exhaustion.	iosxe-csl	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	0-Emergency	IPC connection to the active RP failed because [chars]	IPC connection to the active RP failed. This could be due to a software defect or system resource exhaustion.	iosxe-csl	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.

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
LMRP-0-IPC_INITIALIZATION	0-Emergency	IPC initialization failed because [chars]	IPC initialization failed. This could be due to a software defect or system resource exhaustion.	iosxe-csl	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	0-Emergency	Failed to register with active RP because [chars]	The active RP failed to register.	iosxe-csl	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	0-Emergency	Failed to relay a message because [chars]	Failed to relay a message. This could be due to a software defect or system resource exhaustion.	iosxe-csl	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMRP-0-MESSAGE_RESPONSE	0-Emergency	An invalid message response was received because [chars]	An invalid message response was received. This could be due to a software defect or system resource exhaustion.	iosxe-csl	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	0-Emergency	Failed to advance MQIPC queue because [chars]	The MQIPC initialization failed.	iosxe-csl	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	0-Emergency	MQIPC initialization failed because [chars]	MQIPC initialization failed. This could be due to a software defect or system resource exhaustion.	iosxe-csl	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMRP-0-PEER_TABLE	0-Emergency	A peer table initialization or maintenance function failed because [chars]	A peer table initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	iosxe-csl	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-PLATFORM_FAMILY_TYPE	0-Emergency	The platform family type [chars] is invalid.	The platform family type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.	iosxe-csl	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMRP-0-RESOLVE_FRU	0-Emergency	Failed to determine [chars] card because [chars]	The router failed to determine a FRU state.	iosxe-csl	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	0-Emergency	Failed to initialize general application services because [chars]	The system failed to initialize application services.	iosxe-csl	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-SIGNAL_INITIALIZATION	0-Emergency	Failed to initialize signals because [chars]	The system failed to initialize signals.	iosxe-csl	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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
LMRP-0-SLOTS_INITIALIZATION	0-Emergency	Failed to initialize chassis slot information because [chars]	The system failed to initialize the chassis slot information.	iosxe-csl	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-SLOT_INVALID	0-Emergency	A card absolute slot number cannot be determined for this chassis type	An absolute slot number is invalid. This could be due to a software defect or incorrect IDPROM content.	iosxe-csl	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMRP-0-UIPEER_CREATE	0-Emergency	Failed to create user interface peer.	The system failed to create a user interface peer.	iosxe-csl	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_OBJECT_DESTROY	3-Error	Failed to destroy chassis filesystem object [chars] because [chars]	A chassis filesystem object that should have been destroyed was not destroyed.	iosxe-csl	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	3-Error	Failed to destroy chassis filesystem proprty [chars]/[chars] because [chars]	A chassis filesystem property that should have been destroyed was not destroyed.	iosxe-csl	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMRP-3-LICENSE_SERVICE_SETUP	3-Error	Failed to setup the licensing proxy service	License Manager failed to set itself up as a proxy for licensable features.	iosxe-csl	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	3-Error	A peer table entry has invalid state.	A peer table entry has an invalid state. This could be due to a software defect or system resource exhaustion.	iosxe-csl	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-RTU_UNINITIALIZED	3-Error	RTU not yet initialized: stack enabled [dec]	License manager has not initialized RTU, but manager got RTU enable/disable request	iosxe-csl	No user action is necessary. Reloading might work

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMRP-3-THROUGHPUT_LICENSE_APPLY_FAILED	3-Error	Throughput license look-up failed due to '[chars]'	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 (lmgrd) or it encountered an internal error.	iosxe-csl	No user action is necessary. However, it is possible that a re-boot of the box may correct this behavior.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
LMRP-3-UDI_AUTH	3-Error	Quack Unique Device Identifier authentication failed	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 (lmgrd.log)	iosxe-csl	User immediately needs to contact Cisco support. This device appears to be tampered with or is a counterfeit device or had a system failure.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
LMRP-6-THROUGHPUT_LICENSE	6-Information	Throughput license [chars], throughput set to [chars]	Status indicating whether throughput license is found and the corresponding througput the CPP hardware is configured to provide.	iosxe-csl	No user action is necessary. This is an informational message indicating throughput configured.
LOADBALANCE_TRACE_MESSAGE-3-AP_SW_UPDATE_ERR_LOG_MSG	3-Error	AP SW update [chars]	AP Software Update logging	ewlc-ap	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	5-Notice	AP SW update [chars]	AP Software Update logging	ewlc-ap	No action required
LOADBALANCE_TRACE_MESSAGE-5-LB_LOG_MSG	5-Notice	Loadbalancer Log : [chars]	Generic loadbalancer message	ewlc-ap	No action required
LOADBALANCE_TRACE_MESSAGE-5-LB_NOTICE_MSG	5-Notice	Loadbalancer : [chars]	Loadbalancer informational message	ewlc-app-infra	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
LUA_VM-2-INITIALIZATION	2-Critical	Cannot initialize the Lua Virtual Machine	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.	iosxe-shell-mgr	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-5-FAIL	5-Notice	Authentication failed for client ([chars]) with reason ([chars]) on Interface [chars] AuditSessionID [chars]	MAB Authentication was unsuccessful.	polaris-smd	No action is required.
MAB-5-RESULT_OVERRIDE	5-Notice	Authentication result overridden for client ([chars]) on Interface [chars] AuditSessionID [chars]	Authentication result was overridden	polaris-smd	No action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MAB-5-SUCCESS	5-Notice	Authentication successful for client ([chars]) on Interface [chars] AuditSessionID [chars]	MAB Authentication was successful.	polaris-smd	No action is required.
MATM-3-CONSISTENCY_CHECK_RESULT	3-Error	No Inconsistency detected for Address %02x%02x%02x%02x%02x%02x, vlan [dec]	Consistency checker execution completed	polaris-l2	No Inconsistency detected
MATM-3-HWERROR	3-Error	Hardware [chars] failed	A hardware API access error message occurred.	polaris-l2	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	3-Error	An invalid event :[dec] received in [chars], expected event:[dec]	MATM feature received invalid event on it's event handler	polaris-l2	The condition is being recovered, no action is required
MATM-3-MAC_INCONSISTENCY	3-Error	Inconsistency detected: Address %02x%02x%02x%02x%02x%02x, Vlan [dec]	There is a difference between mac address entry in software and hardware	polaris-l2	Try clearing the mac or run recovery mechanism

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MATM-3-MAX_ENTRIES	3-Error	The maximum number of MAC addresses has been reached:[dec]	The maximum number of MAC entries that can be programmed has been reached.	polaris-l2	New MAC addresses will not be learned. Stop any redundant MAC incrementing traffic for extra streams.
MATM-3-RECONCILIATION	3-Error	Reconciliation post switchover failed : [chars]	Consistency check across modules shows inconsistency in data.	polaris-l2	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.
MCAST_ERROR_MESSAGE-3-MCAST_AVL_DB_MISMATCH	3-Error	DB Mismatch: [chars]	Previous joins and leaves have corrupted the database.	ewlc-multicast	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MCAST_ERROR_MESSAGE-3-MCAST_CLIENT_DATA_ERR	3-Error	Client %02X%02X%02X%02X%02X%02X multicast data is NULL.	Internal multicast database client entry should contain multicast data when a multicast join request comes from below service layer	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_CLIENT_ENTRY_ERR	3-Error	Client %02X%02X%02X%02X%02X%02X does not exist in internal database.	internal multicast database must contain the client entry when a multicast join request comes from below service layer	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_CLNT_ENT_ERR	3-Error	(S,G) count is zero whereas multicast data of client %02X%02X%02X%02X%02X%02X is not NULL	when client disassociates (S,G) count is zero but client's multicast entry is not NULL.	ewlc-multicast	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MCAST_ERROR_MESSAGE-3-MCAST_CLTMAC_LOOKUP_ERR	3-Error	Mismatch between two database while [chars] mgid = [dec] client mac = %02X%02X%02X%02X%02X%02X	Two different databases have different values for the client. Multicast functionality will be affected due to mismatch of database values.	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_DETELE_AVL_MGID	3-Error	Deletion of mgid [dec] from internal multicast databases failed	Mgid entry deletion from the internal database fails	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_GRP_JOIN_LEAVE_FAILED	3-Error	[chars] for client %02X%02X%02X%02X%02X%02X multicast group [chars], mgid [dec]	Failure occurred while handling multicast group join or leave.	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_INSERT_MGID_FAIL	3-Error	insertion of mgid into database failed for some unknown reason - for source [chars] - group [chars] - vlan [dec]	Internal multicast database corrupted.	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_IP_MISMATCH	3-Error	[chars] IP Value already inserted for mgid [dec] mismatches. saved value [chars] expected [chars]	the IP of the stored database and incoming database mismatches	ewlc-multicast	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MCAST_ERROR_MESSAGE-3-MCAST_MGID_CLIENT_TREE_DESTROY_FAIL	3-Error	Mgid [dec] client tree destroy in internal multicast database failed	Mgid client tree destroy in internal database failed	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_MGID_CLIENT_TREE_WALK_FAIL	3-Error	Mgid [dec] client tree walk in internal multicast database failed	Mgid client tree walk in internal database failed	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_MGID_DATA_MISMATCH	3-Error	There is some data mismatch between two databases for mgid [dec].	some database in multicast code is having unexpected null data	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_MGID_MISMATCH	3-Error	mgid value mismatch in database value found [dec] - expected mgid [dec]	the stored mgid value in the database is not same as expected.	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_MGID_NULL_DATA	3-Error	multicast database is having unexpected [chars] NULL value for mgid [dec]	some database in multicast code is having unexpected null data	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_MGID_SGV_DATA_MISMATCH	3-Error	There is some data mismatch between two databases for source [chars] group [chars] vlan [dec] mgid [dec]	some database in multicast code is having unexpected null data	ewlc-multicast	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MCAST_ERROR_MESSAGE-3-MCAST_MOBILITY_HANDOFF_FAILED	3-Error	[chars] [chars] mobility multicast handoff for client %02X%02X%02X%02X%02X%02X	Failure occurred while handling mobility multicast handoff.	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_SG_MAXMGID_ERR	3-Error	Multicast group count [dec] is greater than maximum mgids [dec] per client for client %02X%02X%02X%02X%02X%02X	This and further new mgid entries for this client will be ignored Multicast functionality will be affected for those mgids.	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_SG_NONZERO_ERR	3-Error	[chars] (S,G) count [dec] is greater than zero whereas client %02X%02X%02X%02X%02X%02X multicast data is NULL	Two different databases have different values for the client. Multicast functionality will be affected due to mismatch of database values.	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-3-MCAST_SPAM_UPDATE_FAILED	3-Error	[chars] for mgid type [dec], client %02X%02X%02X%02X%02X%02X multicast group info [chars] to AP %02X%02X%02X%02X%02X%02X	Failure occurred while sending multicast info to AP.	ewlc-multicast	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MCAST_ERROR_MESSAGE-3-TASK_CREATE_ERR	3-Error	ERROR: Failed to create client-multicast library	An internal error occurred due to which the client multicast subsystem could not be initialized. APs may not be able to join the controller.	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-4-MCAST_MOM_NOT_CONFIGURED_ON_MOM_ONLY_PLATFORM	4-Warning	Multicast-over-Multicast (wireless multicast <ipv4Addr>/ipv6 <ipv6Addr>) is not configured on Multicast-over-Multicast Only platform. Wireless multicast will not work until MOM is configured	Wireless multicast is configured without MOM on MOM-Only platform	ewlc-multicast	LOG_STD_ACTION
MCAST_ERROR_MESSAGE-6-MCAST_MOM_CONFIG_CHANGE	6-Information	Capwap multicast mode [chars] [chars]. IPv4 [[chars]:[chars]] and IPv6 [[chars]:[chars]] with Wireless multicast status [chars]. [chars]	Wireless capwap multicast mode changed	ewlc-multicast	LOG_STD_ACTION
MCG_APMGR_MESSAGE-3-APMGR_ERROR	3-Error	Error : [chars]	APMGR error	mcg-ap	LOG_STD_ACTION
MCG_APMGR_MESSAGE-5-AP_DISJOIN	5-Notice	AP Name : [chars], MAC : [chars], Session : [chars], Disconnect reason : [chars]	AP disjoin information	mcg-ap	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MCG_APMGR_MESSAGE-5-AP_JOIN	5-Notice	AP Name : [chars], MAC : [chars], Session : [chars], PMTU : [dec], Data tunnel : [chars], MCG role : [chars]	AP Join information	mcg-ap	LOG_STD_NO_ACTION
MCG_APMGR_MESSAGE-5-AP_JOIN_FAIL	5-Notice	AP Name : [chars], MAC : [chars], Session : [chars], Disconnect reason : [chars]	AP join failure information	mcg-ap	LOG_STD_NO_ACTION
MCP_SYS-0-ASSERTION_FAILED	0-Emergency	Assertion failed: [chars]	An internal state consistency check failed.Correct operation cannot be guaranteed, and the system has been halted.	INVALID	LOG_STD_ACTION
MDNS_SYSLOG-3-EXCESS_SERVICE	3-Error	number of responses([dec]) for query ([chars]) is limited to ([dec]) due to query response threshold	An MDNS Service Query resulted in too many services in the response, user experience for MDNS may be suboptimal. This may also consume more CPU cycles	mdns-binos	Check the service policy configuration and consider moving to a more restrictive location if the problem persists

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MDNS_SYSLOG-3-EXCESS_SERVICE_WIDE_AREA_BONJOUR	3-Error	Number of services in the response ([dec]) for query [chars] has exceeded threshold [dec]	An MDNS Service Query resulted in too many services in the response, user experience for MDNS may be suboptimal and may take up more CPU	mdns-binos	re-check the service policy on the Wide area bonjour side and Controller. Move to more restrictive location filter if problem persists

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MDR-3-NODE_ISSU_SIP_WAIT	3-Error	Could not wait for [chars] to complete Minimal Disruptive Restart	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.	issu-infrastructure	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MDR-3-NODE_ISSU_SPA_WAIT	3-Error	Could not wait for [chars] in [chars] to complete Minimal Disruptive Restart	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.	ios-infra-util	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MDR-3-NO_ACTIVE_ESP	3-Error	No active ESP was found when initiating Minimal Disruptive Restart	An unexpected error has occured where no active ESP was found to continue forwarding traffic during the Minimal Disruptive Restart. All requested linecards and or modules were reset as normal.	iosxe-bmcs-util	Review the IOSd, RP and CC chassis manager logs for errors or linecard OIR.
MDR-3-NO_SPAS_IN_SIP	3-Error	No Minimal Disruptive Restart compatible SPAs found in [chars]	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.	iosxe-bmcs-util	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MDR-3-READ_COMPAT_INFO	3-Error	Failed to read valid Minimal Disruptive Restart compatibility information for [chars]		iosxe-infra-util	Review the IOSd, RP and CC chassis manager logs for errors.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			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		

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			modules were reset as normal.		
MDR-3-READ_SIP_RESET	3-Error	Failed to read a valid Minimal Disruptive Restart reset value for [chars]	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.	iosxe-infra-utils	Review the IOSd, RP and CC chassis manager logs for errors.
MDR-3-RESTART_FAILED	3-Error	Failed to perform Minimal Disruptive Restart on [chars]	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.	iosxe-infra-utils	Review the IOSd, RP and CC chassis manager logs for errors.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MDR-3-SIP_OFFLINE	3-Error	[chars] is not online to perform Minimal Disruptive Restart	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.	ios-chassis-infra	Review the IOSd, RP and CC chassis manager logs for errors or linecard OIR.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
MDR-3-SOFTWARE_TRANSFER	3-Error	Failed to receive upgrade software for [chars]	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.	iosxe-infra-utils	Review the IOSd, RP and CC chassis manager logs for errors.
MDR-3-SPA_BAY_INVALID	3-Error	Could not perform Minimal Disruptive Restart on invalid [chars] in [chars]	An unexpected error has occured where the specified module was to undergo Minimal Disruptive Restart however the module was invalid.	iosxe-infra-utils	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MDR-3-SPA_IS_NOT_READY	3-Error	[chars] in [chars] is not ready to perform Minimal Disruptive Restart	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.	ios-chassis-infra	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.
MDR-3-SPA_NOT_FOUND	3-Error	[chars] in [chars] could not be found to perform Minimal Disruptive Restart	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.	ios-chassis-infra	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MDR-3-SPA_OFFLINE	3-Error	[chars] in [chars] is not online to perform Minimal Disruptive Restart	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.	ios-shim-utils	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.
MDR-3-SPA_TYPE_MISMATCH	3-Error	Could not perform Minimal Disruptive Restart on [chars] in [chars] due to a SPA type mismatch	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.	ios-shim-utils	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MDR-3-SPA_WAS_NOT_READY	3-Error	[chars] in [chars] was not ready to perform Minimal Disruptive Restart	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.	iosxe-infra-utils	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.
MDR-5-CARD_RESTART	5-Notice	Minimal Disruptive Restart [chars] to acquire provisioned software	The FRU specified was not running the currently provisioned software, which it will acquire on Minimal Disruptive Restart.	iosxe-infra-utils	No user action is necessary. This message indicates the system is functioning normally and is provided for informational purposes only.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MDR-5-SIP_UNSUPPORTED	5-Notice	[chars] does not support Minimal Disruptive Restart	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.	iosxe-infra	No user action is necessary.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MDR-5-SPA_UNSUPPORTED	5-Notice	[chars] does not support Minimal Disruptive Restart	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.	iosxe-infra-utils	No user action is necessary.
MDT_CONNECTION-6-STATE_CHANGED	6-Information	Connection state changed (id [chars] - [chars]): [chars]	The connection state has been changed.	polaris-mdt-infra	Notification for connection state changed. No action required.
MDT_SUBSCRIPTION-4-EXCEEDED_ACTIVE_SUB_LIMIT	4-Warning	Active subscription limit exceeded (stream [chars], id [chars], client [chars]): [chars]	The specified subcription will not be connected due to exceeding the maximum number of active subscriptions on this platform.	polaris-mdt-infra	Reduce the number of active subscriptions by either removing configured subscriptions or terminating dynamic subscriptions that are not needed.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MDT_SUBSCRIPTION-4-INVALID_ARGUMENTS	4-Warning	Subscription creation failed (stream [chars], id [chars], client [chars]): [chars]	The value of the given parameter is invalid or not specified.	polaris-mdt-infra	Correct the invalid parameter and try the subscription again.
MDT_SUBSCRIPTION-4-NOT_SUPPORTED	4-Warning	Subscription creation failed (stream [chars], id [chars], client [chars]): [chars]	The value of the given parameter is not supported.	polaris-mdt-infra	Try the subscription again with a supported value.
MDT_SUBSCRIPTION-4-OUTSIDE_LIMIT	4-Warning	Subscription creation failed (stream [chars], id [chars], client [chars]): [chars]	The value of the parameter is outside of the allowable range.	polaris-mdt-infra	Try the subscription again with a value within the allowable range.
MDT_SUBSCRIPTION-4-RESUMED	4-Warning	Subscription resumed (stream [chars], id [chars], client [chars]): [chars]	The specified subscription was resumed from run-time error.	polaris-mdt-infra	Try to slow down the data source or check if the connection is stable.
MDT_SUBSCRIPTION-4-TERMINATED	4-Warning	Subscription terminated (stream [chars], id [chars], filter [chars], client [chars]): [chars]	The specified subscription was terminated due to run-time error.	polaris-mdt-infra	Try the subscription again
MDT_SUBSCRIPTION-4-XPATH_INVALID	4-Warning	Subscription creation failed (stream [chars], id [chars], client [chars]): [chars]	The specified XPath filter is invalid.	polaris-mdt-infra	Correct the XPath filter and try the subscription again.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MEM_DIAGNOSE-3-OVERFLOW	3-Error	Memory is overflowed - fence(hdr:%p, foot:%p), dump memory: [chars]	Current memory is overflowed	iosxe-hostmgr	check the memory structure and operation
MERAKI_MGRD-3-MERAKI_INTFC_SETUP_ERR	3-Error	Meraki interface setup error: [dec]	Initial meraki interface setup failed - cannot bringup config updater	polaris-aurora	Retry reconfiguring service meraki connect
MERAKI_MGRD-3-MIG_PKG_VERIFY_ERR	3-Error	Migration: installed package verification failed	Installed package validation failed in mode migration	polaris-aurora	No action is required
MERAKI_MGRD-3-MIG_PKG_VERIFY_TIMEOUT_ERR	3-Error	Migration: installed package validation exceeded timeout 90 seconds	Installed package validation exceeded timeout 90 seconds	polaris-aurora	No action is required
MERAKI_MGRD-5-CONFIG_MONITOR_ERR	5-Notice	Config Monitor ERR: [chars]	Config monitor err message	polaris-aurora	No action is required
MERAKI_MGRD-5-CONFIG_MONITOR_NOTIF	5-Notice	Config Monitor: [chars]	Config monitor message	polaris-aurora	No action is required
MERAKI_MGRD-5-CONFIG_UPDATER_ERR	5-Notice	Config Updater ERR: [chars]	Config Updater err message	polaris-aurora	No action is required
MERAKI_MGRD-5-CONFIG_UPDATER_NOTIF	5-Notice	Config Updater: [chars]	Config Updater message	polaris-aurora	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MERAKI_MGRD-5-CURL_FETCH_ERR	5-Notice	Curl Fetch ERR: [chars]	Curl Fetch error message	polaris-aurora	No action is required
MERAKI_MGRD-5-MERAKI_FSM_START_FAILED	5-Notice	Meraki FSM failed to start	Meraki mgrd FSM failed to start	polaris-aurora	No action is required
MERAKI_MGRD-5-MERAKI_RESET_NOTIFICATION	5-Notice	: Reset Notification [chars]	Reset recovery message	polaris-aurora	No action is required
MERAKI_MGRD-5-MERAKI_RESET_RECOVERY	5-Notice	: Reset recovery [chars]	Reset recovery message	polaris-aurora	No action is required
MERAKI_MGRD-5-PRI_TUNNEL_STATE	5-Notice	Primary Tunnel State: [chars]	Primary tunnel state change notification	polaris-aurora	No action is required
MERAKI_MGRD-5-SEC_TUNNEL_STATE	5-Notice	Secondary Tunnel State: [chars]	Secondary tunnel state change notification	polaris-aurora	No action is required
MERAKI_NCMD-5-NODE_CERT_RENEW_STATE	5-Notice	Node Cert Renew State: [chars]	Node Cert renew state change notification	polaris-aurora	No action is required
MERAKI_NCMD-5-NODE_CERT_STATE	5-Notice	Node Cert State: [chars]	Node Cert state change notification	polaris-aurora	No action is required
MERAKI_NCMD-5-NODE_CLOUD_ID_STATE	5-Notice	Node Cloud_ID State: [chars]	Node Cloud_ID state change notification	polaris-aurora	No action is required

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
MERAKI_NCMD-5-NODE_TOKEN_STATE	5-Notice	Node Token State: [chars]	Node Token state change notification	polaris-aurora	No action is required
MESH_DB_TRACE_MESSAGE-3-EWLC_MESH_DB_EXEC_MSG	3-Error	%% Error: [chars]	Improper arguments or config	iosxe-bmcs-utils	Arguments to be changed
MESH_DB_TRACE_MESSAGE-6-EWLC_MESH_DB_INFO_MSG	6-Information	%% Info: [chars]	Info level logs	iosxe-bmcs-utils	No action required
MESH_TRACE_MESSAGE-3-EWLC_MESH_AP_DISCONNECT_MSG	3-Error	%% Error: [chars]	Failed to Disconnect AP for Mesh config changes	iosxe-bmcs-utils	Reboot the AP for the mesh configs to be applied
MESH_TRACE_MESSAGE-3-EWLC_MESH_AP_RESET_MSG	3-Error	%% Error: [chars]	Failed to reboot AP for Mesh config changes	iosxe-bmcs-utils	Reboot the AP for the mesh configs to be applied
MESH_TRACE_MESSAGE-3-EWLC_MESH_EXEC_MSG	3-Error	%% Error: [chars]	Improper arguments or config	iosxe-bmcs-utils	Arguments to be changed
MESH_TRACE_MESSAGE-3-EWLC_MESH_PROFILE_CHANGE_MSG	3-Error	%% Error: [chars]	Mesh profile change for AP did not get Applied	iosxe-bmcs-utils	Reboot the AP for the mesh configs to be applied
MESH_TRACE_MESSAGE-4-EWLC_MESH_DCA_INTERVAL_MSG	4-Warning	DCA interval is too long. Configure it to 10min to make sure algorithm will run	The DCA algorithm might not run during that channel update period	iosxe-bmcs-utils	Configure DCA interval to a 10min period to make sure that the algorithm will run

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
ME_APMGR_TRACE_MESSAGE-2-EWC_APMGR_CFG_SYNC_FAIL	2-Critical	Failed to synchronize configuration to EWC-capable APs on the network	Failed to synchronize configuration to EWC-capable APs on the network	ewcap-image	A switchover to the standby followed by reconfiguration is recommended.
ME_APMGR_TRACE_MESSAGE-6-EWC_APMGR_RESET	6-Information	AP Event: Controller Image Download is successful, reset AP mac [chars]	Controller Image Download is successful, reset AP	ewcap-image	LOG_STD_NO_ACTION
MMIF_LOG-2-WLAN_CRIT_ERR	2-Critical	WLAN Error : [chars]	Critical issue seen with WLAN config. Make a note of any recent changes made to the network or the device configuration which may have triggered this and proceed to the suggested action.	ewlc-mobility	Copy the error message exactly as it appears on the console or in the system log. Open a case with the Technical Assistance Center via the Internet http://www.cisco.com/cisco/web/support/index.html or contact your Cisco technical support representative and provide the representative with the gathered information. It is suggested to collect archive traces and live process core to analyse the error.
MMIF_LOG-3-BUFF_ALLOC_FAILED	3-Error	Failed to allocate memory for [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MMIF_LOG-3-BUFF_DEALLOC_FAILED	3-Error	Failed to deallocate memory for [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MMIF_LOG-3-MSG_PAYLOAD_ALLOCATE_ERROR	3-Error	%02x%02x%02x%02x%02x%02x Cannot allocate [chars] for [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MMIF_LOG-3-MSG_PAYLOAD_BUILD_ERROR	3-Error	%02x%02x%02x%02x%02x%02x Cannot build [chars] for [chars]. Reason: [chars]	LOG_EXPLANATION_STR	ewlc-mobility	LOG_STD_RECUR_ACTION
MMIF_LOG-3-MSG_PAYLOAD_BUILD_GENERAL_ERROR	3-Error	%02x%02x%02x%02x%02x%02x Failed to build [chars]: [chars]	LOG_EXPLANATION_STR	ewlc-mobility	LOG_STD_RECUR_ACTION
MMIF_LOG-3-MSG_PAYLOAD_PROCESS_ERROR	3-Error	%02x%02x%02x%02x%02x%02x Cannot process [chars] for [chars]. Reason: [chars]	LOG_EXPLANATION_STR	ewlc-mobility	LOG_STD_RECUR_ACTION
MMIF_LOG-3-MSG_PAYLOAD_RECEIVE_ERROR	3-Error	%02x%02x%02x%02x%02x%02x [chars] received is missing payload [chars]	LOG_EXPLANATION_STR	ewlc-mobility	LOG_STD_RECUR_ACTION
MMIF_LOG-4-ANCHOR_RESP_LOCAL_DELETE	4-Warning	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: %02x%02x%02x%02x%02x%02x	Export anchor required but internal error occurred (e.g.: out of resources)	ewlc-guest	If this message occurs, it implies that internal error occurred and needs further debugging.
MMIF_LOG-4-ANCHOR_RESP_PROFILE_MISMATCH	4-Warning	Export anchor required but config is incorrect, sending export anchor deny mismatch for: Wlan-Profile: [chars], Policy Profile: [chars], client mac: %02x%02x%02x%02x%02x%02x	Export anchor required but config is incorrect: sending export anchor deny mismatch	ewlc-guest	If this message occurs, it implies that configuration should be checked for wlan and policy profile
MMIF_LOG-7-MSG_PAYLOAD_SIZE_ERROR	7-Debug	The payload size has exceeded the limit. [chars]	Available buffer cannot hold IPV6 NDP pkt payload.	ewlc-mobility	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MM_APLIST_LOG-3-APENTRY_DEL_FAILED	3-Error	Could not delete an AP from the AP list.	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_APLIST_LOG-3-INVALID_APLISTUPD_RECVD	3-Error	Received an invalid ap-list-update from [chars]. Entries: [dec], Expected: [dec]. [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_APLIST_LOG-3-MSG_PAYLOAD_RECEIVE_ERROR	3-Error	[chars] message received is missing payload [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_APLIST_LOG-4-APENTRY_ADD_FAILED	4-Warning	Unable to create an ApList entry for AP %02x%02x%02x%02x%02x%02x ApList table is full	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-0-MOBILITY_TASK_FAILED_TO_START	0-Emergency	[chars] task could not be started. The system will be rebooted	LOG_EXPLANATION	ewlc-mobility	The mobility services failed to start correctly
MM_INFRA_LOG-0-MSG_RECV_FAILED	0-Emergency	[chars]: msg revd failed	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-0-QUEUE_CREATE_FAILED	0-Emergency	[chars]: queue creation failed	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-1-MOBILITYUSER_STATECREATE_FAILED	1-Alert	Unable to create mobility state for user [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-1-USER_NOT_ALLOWED	1-Alert	Unable to allow user [chars] into the system. [chars]	Unable to allow the user into the system for the reported reason	ewlc-mobility	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MM_INFRA_LOG-2-INIT_FAILED	2-Critical	Error while initializing mobility daemon. [chars]	Error while initializing mobility daemon	ewlc-mobility	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
MM_INFRA_LOG-3-BUFF_ALLOC_FAILED	3-Error	Failed to allocate memory for [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-BUFF_DEALLOC_FAILED	3-Error	Failed to deallocate memory for [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-CONFIGDOWNLOAD_FAILED	3-Error	Failed to send a config download [chars] paket to [dec].[dec].[dec].[dec]	Failed to send a configdownload packet	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-DGRAM_SEND_FAILED	3-Error	%02x%02x%02x%02x%02x%02x Unable to send [chars] to [chars].	Unable to send a mobility packet	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-INVALID_PKT_RECVD	3-Error	Received an invalid packet from source endpoint: [chars]. [chars]	LOG_EXPLANATION	ewlc-mobility	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-3-MSG_PAYLOAD_ALLOCATE_ERROR	3-Error	%02x%02x%02x%02x%02x%02x Cannot allocate [chars] for [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-MSG_PAYLOAD_BUILD_ERROR	3-Error	%02x%02x%02x%02x%02x%02x Cannot build [chars] for [chars]. Reason: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MM_INFRA_LOG-3-MSG_PAYLOAD_BUILD_GENERAL_ERROR	3-Error	%02x%02x%02x%02x%02x%02x Failed to build [chars]: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-MSG_PAYLOAD_DECODE_ERROR	3-Error	%02x%02x%02x%02x%02x%02x [chars] cannot decode mobility payload/s for [chars]. Reason: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-MSG_PAYLOAD_ENCODE_ERROR	3-Error	%02x%02x%02x%02x%02x%02x [chars] cannot encode mobility payload/s for [chars]. Reason: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-MSG_PAYLOAD_PROCESS_ERROR	3-Error	%02x%02x%02x%02x%02x%02x Cannot process [chars] for [chars]. Reason: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-MSG_PAYLOAD_RECEIVE_ERROR	3-Error	%02x%02x%02x%02x%02x%02x [chars] received is missing payload [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-MSG_PROC_FAILED	3-Error	%02x%02x%02x%02x%02x%02x Unable to process the received mobility message [chars] from [chars]. reason: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-MSG_PROC_FAILED_GROUP_NAME_HASH	3-Error	Pkt group name hash: [chars] Peer group name hash: [chars] [chars]. reason: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-MSG_PROC_FAILED_MAC_ADDR	3-Error	Pkt MAC: %02x%02x%02x%02x%02x%02x Peer MAC: %02x%02x%02x%02x%02x%02x [chars]. reason: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-MSG_TIMER_ERROR	3-Error	Timer error: failed to [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MM_INFRA_LOG-3-RECV_FAILED	3-Error	Unable to receive mobility message [chars] from [chars]. reason: [chars]	Unable to receive a mobility packet	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-3-SEND_FAILED	3-Error	%02x%02x%02x%02x%02x%02x Unable to send [chars] to [chars]. Reason: [chars].	Unable to send a mobility packet	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-4-MOBILITY_OUTGOING_MSG_ERROR	4-Warning	Invalid outgoing msg	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_INFRA_LOG-7-MSG_PAYLOAD_SIZE_ERROR	7-Debug	The payload size has exceeded the limit. [chars]	Available buffer cannot hold IPV6 NDP pkt payload.	ewlc-mobility	LOG_STD_NO_ACTION
MM_INFRA_LOG-7-MSG_PROC_UNEXISTING_CLIENT	7-Debug	%02x%02x%02x%02x%02x%02x Unable to process the received mobility message [chars] from [chars]. reason: [chars]	LOG_NO_ACTION	ewlc-mobility	LOG_STD_NO_ACTION
MM_LOG-2-MAX_SUPPORTED_CLIENTS_90PCT_EXCEEDED	2-Critical	90%% ([dec]) of maximum supported number of joined client [dec] exceeded	Exceeded 90% of maximum supported client join limit	ewlc-mobility	LOG_STD_NO_ACTION
MM_LOG-2-MAX_SUPPORTED_CLIENTS_EXCEEDED	2-Critical	Maximum supported number of joined clients [dec] exceeded	Maximum supported number of joined clients exceeded.	ewlc-mobility	LOG_STD_NO_ACTION
MM_LOG-3-ANCHOR_GENERIC_ERR	3-Error	Anchor: [chars]. client mac: %02x%02x%02x%02x%02x%02x	Anchor has detected and error.	ewlc-guest	LOG_STD_RECUR_ACTION
MM_LOG-3-BUFF_ALLOC_FAILED	3-Error	Failed to allocate memory for [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_LOG-3-BUFF_DEALLOC_FAILED	3-Error	Failed to deallocate memory for [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MM_LOG-3-MIP_READ_ERROR	3-Error	[chars]. Encountered memory error, please report the error if you experience a crash.	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_LOG-3-MSG_PAYLOAD_ALLOCATE_ERROR	3-Error	%02x%02x%02x%02x%02x%02x Cannot allocate [chars] for [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_LOG-3-MSG_PAYLOAD_BUILD_ERROR	3-Error	%02x%02x%02x%02x%02x%02x Cannot build [chars] for [chars]. Reason: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_LOG-3-MSG_PAYLOAD_BUILD_GENERAL_ERROR	3-Error	%02x%02x%02x%02x%02x%02x Failed to build [chars]: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_LOG-3-MSG_PAYLOAD_ENCODE_ERROR	3-Error	%02x%02x%02x%02x%02x%02x cannot encode mobility payload/s for [chars]. Reason: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_LOG-3-MSG_PAYLOAD_PROCESS_ERROR	3-Error	%02x%02x%02x%02x%02x%02x Cannot process [chars] for [chars]. Reason: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_LOG-3-MSG_PAYLOAD_RECEIVE_ERROR	3-Error	%02x%02x%02x%02x%02x%02x [chars] received is missing payload [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_LOG-3-MSG_TIMER_ERROR	3-Error	[chars] Timer: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_LOG-4-EXPORT_ANCHOR_DENY	4-Warning	Export anchor required, but received export anchor deny for: WLAN Profile: [chars], Client MAC: %02x%02x%02x%02x%02x%02x, Error: [chars]	Export anchor required: received export anchor deny	ewlc-guest	If this message occurs, depending on the error code appropriate action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MM_LOG-4-RETRIES_FAILED	4-Warning	MAC: %02x%02x%02x%02x%02x%02x All retries of [chars] (XID: [dec]) to [chars] have been exhausted	All retries for packet are exhaused	ewlc-mobility	LOG_STD_ACTION
MM_LOG-6-ANCHOR_GENERIC_INFO	6-Information	Anchor: [chars]. client mac: %02x%02x%02x%02x%02x%02x	Anchor has detected a protocol issue and recovered.	ewlc-guest	LOG_STD_NO_ACTION
MM_LOG-6-MAX_CLIENTS_PER_WLAN_REACHED	6-Information	Maximum number of Clients on wlan [chars] with Limit: [dec] Reached	Maximum number of Clients per wlan Join Limit Reached.	ewlc-mobility	LOG_STD_NO_ACTION
MM_LOG-6-MAX_CLIENTS_THRESHOLD_REACHED	6-Information	Maximum number of Client Join Limit: [dec] Reached	Maximum number of Client Join Limit Reached.	ewlc-mobility	LOG_STD_NO_ACTION
MM_LOG-6-MM_EXPORT_ANCHOR_FULL	6-Information	Export Anchor not responding, back off condition set (Client MAC: %02x%02x%02x%02x%02x%02x, AnchorIP: [chars])	LOG_EXPLANATION_NOT_AVAILABLE	ewlc-guest	LOG_STD_NO_ACTION
MM_LOG-6-WLAN_CLIENT_LIMIT	6-Information	Client limit reached on [chars]. Denied client mac: %02x%02x%02x%02x%02x%02x	Client limit reached on wlan on anchor.	ewlc-mobility	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MM_LOG-7-EXPORT_ANCHORS_DOWN	7-Debug	MAC %02x:%02x:%02x:%02x:%02x:%02x All Export-Anchors are down.	All Export-Anchors are down.	ewlc-guest	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_LOG-7-MSG_PAYLOAD_SIZE_ERROR	7-Debug	The payload size has exceeded the limit. [chars]	Available buffer cannot hold IPV6 NDP pkt payload.	ewlc-mobility	LOG_STD_NO_ACTION
MM_NODE_LOG-0-MULTICAST_GROUP_IP_SET_ERROR	0-Emergency	Error in [chars] while setting local mobility group multicast IP address [dec].[dec].[dec].[dec]. Please disable mobility multicast-mode if this error continues	Mobility is unable to use multicast for messaging	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_NODE_LOG-1-ANCHORS_DOWN	1-Alert	All Export-Anchors are down	All Export-Anchors are down on WLAN	ewlc-guest	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.
MM_NODE_LOG-1-KEEP_ALIVE	1-Alert	Mobility [chars] tunnel to peer [chars] changed state to [chars]	Mobility tunnel state change message.	ewlc-mobility	LOG_STD_ACTION
MM_NODE_LOG-3-BUFF_ALLOC_FAILED	3-Error	Failed to allocate memory for [chars]	LOG_EXPLANATION_STR	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_NODE_LOG-3-BUFF_DEALLOC_FAILED	3-Error	Failed to deallocate memory for [chars]	LOG_EXPLANATION_STR	ewlc-mobility	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MM_NODE_LOG-3-INTFCHANGE_REGISTER_FAILED	3-Error	Failed to register callback for interface changes	LOG_EXPLANATION_STR	ewlc-mobility	LOG_STD_ACTION
MM_NODE_LOG-3-INVALID_NONCE_RECVD	3-Error	Received an invalid Nonce-update from [chars]. [chars].	LOG_EXPLANATION_STR	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_NODE_LOG-3-INVALID_PMKDEL_RECVD	3-Error	Received PMK-delete from [chars] with no Station address TLV.	LOG_EXPLANATION_STR	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_NODE_LOG-3-INVALID_PMKUPD_RECVD	3-Error	Received an invalid PMK-update from [chars]. [chars].	LOG_EXPLANATION_STR	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_NODE_LOG-3-MEMBER_ADD_FAILED	3-Error	Could not add Mobility Member. Reason: [chars], IP: [chars]	Could not add Mobility Member for the given reason.	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_NODE_LOG-3-MEMBER_DEL_FAILED	3-Error	Could not delete Mobility Member. Reason: [chars], IP: [chars]	Mobility Member deletion from the list failed	ewlc-mobility	Please check if the mobility member to be deleted exists
MM_NODE_LOG-3-MEMBER_UPDATE_FAILED	3-Error	Could not update Mobility Member. Reason: [chars], IP: [chars]	Could not update Mobility Member for the given reason.	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_NODE_LOG-3-MSG_PAYLOAD_RECEIVE_ERROR	3-Error	[chars] message received is missing payload [chars]	LOG_EXPLANATION_STR	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_NODE_LOG-3-MULTICAST_GROUP_SEND_ERROR	3-Error	Unable to send multicast mobility message. [chars]	Mobility is unable to use multicast for messaging	ewlc-mobility	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MM_NODE_LOG-3-PEER_PING_FAILED	3-Error	Mobility ping to [chars] rejected. [chars]	Mobility ping rejected	ewlc-mobility	Please check the ping command issued
MM_NODE_LOG-3-PEER_PING_VERSION_UNKNOWN	3-Error	Mobility ping to [chars] rejected. [chars]	Mobility ping version unknown	ewlc-mobility	Please check if the controllers in the mobility list can interOp and
MM_NODE_LOG-3-PING_DROPPED	3-Error	Drop [chars] ping from [chars]. [chars]	Mobility ping response Dropped	ewlc-mobility	LOG_STD_NO_ACTION
MM_NODE_LOG-3-PING_SEND_FAILED	3-Error	Failed to send a [chars] ping to [chars] . Reason: [chars].	Failed to send a ping	ewlc-mobility	Please check mobility configuration to see if it needs correction
MM_NODE_LOG-3-SOCK_INVALID_MULTICAST_ADDRESS	3-Error	Mobility group local multicast address has invalid setting: [dec].[dec].[dec].[dec]. Resetting it to 0.0.0.0 and disabling mobility multicast	Mobility multicast group address configuration was found invalid. It may have been corrupted during config transfer	ewlc-mobility	Configure the address again by using cmd: config mobility multicast-mode enable multicast_address
MM_NODE_LOG-3-SOCK_OPER_FAILED	3-Error	Failed to [chars] a socket. [chars]	A Socket operation is failed	ewlc-mobility	LOG_STD_ACTION
MM_NODE_LOG-3-SOCK_SET_ADDRESS_OPTION_FAILED	3-Error	Failed to [chars] a socket. Reason: [chars].	A Socket operation is failed. Multicast mode will not work for mobility	ewlc-mobility	Try setting the local group multicast address again. If the same error is seen, disable the multicast-mode for mobility and

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MM_NODE_LOG-3-SYSTEM_IP	3-Error	Peer IP conflicts with system IP [chars]	Peer Ip is conflicting with System Management Ip.	ewlc-mobility	LOG_STD_ACTION
MM_NODE_LOG-3-SYSTEM_MAC	3-Error	Member [chars] is configured with a MAC that conflicts with system mobility MAC addres %02x%02x%02x%02x%02x%02x	Peer MAC is conflicting with System Mobility MAC.	ewlc-mobility	LOG_STD_ACTION
MM_NODE_LOG-4-DTLS_HANDSHAKE_FAIL	4-Warning	[chars] handshake failed for [chars] HB is down, need to re-initiate DTLS handshake	Error during DTLS handshake	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_NODE_LOG-4-HB_MEMBER_ADD_BY_IP_ERROR	4-Warning	Error adding Mobility member to heartbeat list (IP: [chars])	LOG_EXPLANATION	ewlc-mobility	LOG_STD_ACTION
MM_NODE_LOG-4-HB_MEMBER_ADD_ERROR	4-Warning	Error adding Mobility member to heartbeat list (MAC: %02x%02x%02x%02x%02x%02x, IP: [chars])	LOG_EXPLANATION	ewlc-mobility	LOG_STD_ACTION
MM_NODE_LOG-4-HB_MEMBER_DELETE_BY_IP_ERROR	4-Warning	Error deleting Mobility member from heartbeat list (IP: [chars])	LOG_EXPLANATION	ewlc-mobility	LOG_STD_ACTION
MM_NODE_LOG-4-HB_MEMBER_DELETE_ERROR	4-Warning	Error deleting Mobility member from heartbeat list (MAC: %02x%02x%02x%02x%02x%02x, IP: [chars])	LOG_EXPLANATION	ewlc-mobility	LOG_STD_ACTION
MM_NODE_LOG-4-HEARTBEAT_LIST_MEMBER_UPDATE_ERROR	4-Warning	Error updating Mobility member IP in heartbeat list (MAC: %02x%02x%02x%02x%02x%02x, oldIP: [chars], newIP: [chars])	LOG_EXPLANATION	ewlc-mobility	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
MM_NODE_LOG-4-MEMBER_DOWN	4-Warning	[chars] path to mobility member [chars] is DOWN	A path to mobility member is DOWN	ewlc-mobility	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-4-PMTU_FAILED	4-Warning	Capwap path MTU discovery error: [chars]	Mobility path MTU discovery failure	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_NODE_LOG-4-PMTU_SET_FAILED	4-Warning	Failed to set path MTU to fast path for peer IP: [chars]	LOG_EXPLANATION	ewlc-mobility	LOG_STD_RECUR_ACTION
MM_NODE_LOG-6-HEARTBEAT_LIST_MEMBER_UPDATED	6-Information	Updating Mobility member IP in heartbeat list (MAC: %02x%02x%02x%02x%02x%02x, oldIP: [chars], newIP: [chars])	LOG_EXPLANATION	ewlc-mobility	LOG_STD_NO_ACTION
MM_NODE_LOG-6-MEMBER_ADDED	6-Information	Adding Mobility member (IP: [chars]: [chars])	LOG_EXPLANATION	ewlc-mobility	LOG_STD_NO_ACTION
MM_NODE_LOG-6-MEMBER_DELETED	6-Information	Deleting Mobility member (IP: [chars])	LOG_EXPLANATION	ewlc-mobility	LOG_STD_NO_ACTION
MM_NODE_LOG-6-MEMBER_UP	6-Information	[chars] path to mobility member [chars] is UP	A path to mobility member is UP	ewlc-mobility	LOG_STD_NO_ACTION
MM_NODE_LOG-6-MEMBER_UPDATED	6-Information	Updating Mobility member (IP: [chars]: [chars])	LOG_EXPLANATION	ewlc-mobility	LOG_STD_NO_ACTION
MM_NODE_LOG-6-MM_EXPORT_ANCHOR_FULL_RESET	6-Information	Export Anchor back off condition cleared (AnchorIP: [chars])	LOG_EXPLANATION	ewlc-guest	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
MM_NODE_LOG-6-PING_RECEIVER_ENTRY_DELETED	6-Information	Deleted ping receiver entry ([chars]) from heartbeat list for WLAN ([dec])	LOG_EXPLANATION_NOT_AVAILABLE	ewlc-mobility	LOG_STD_NO_ACTION
MM_NODE_LOG-6-SOCK_SET_ADDRESS_OPTION	6-Information	Setting [chars] multicast group [chars] on the mobility sockets.	Multicast group membership was set on the socket.	ewlc-mobility	LOG_STD_NO_ACTION
MOBILITYD_LOG-2-INIT_FAILED	2-Critical	Error while initializing mobility daemon. [chars]	Error while initializing mobility daemon	ewlc-mobility	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

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
NDBMAN-3-CONFIG_COMMIT_FAIL	3-Error	Commit failed for feature '[chars]' from [chars]:[dec] via [chars] user [chars] session [dec], transaction-id [dec]i error [chars]	A failed attempt to change running configuration was made via one of the model-based interfaces NETCONF/RESTCONF/gNMI. Configuration was successfully validated by the feature during the validation phase of the transaction but failed during the commit phase	ddmi-infra	Check the device cnfiguration. Collect device logs. Reinitialize the model-based component

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
NDBMAN-4-CONFIG_REJECT_W	4-Warning	Config rejected by feature '[chars]' from [chars]:[dec] via [chars] user [chars] session [dec], transaction-id [dec] error [chars]	A failed attempt to change running configuration was made via one of the model-based interfaces NETCONF/SSH/SNMP. Either the feature validation logic rejected the config change as invalid or an error occured during an attempt to validate the config modification	ddmi-infra	Informational only. No action required.
NDBMAN-5-ACTIVE	5-Notice	All data providers active.	All data providers active.	ddmi-infra	Informational only. No action required.
NDBMAN-5-CONFIG_I	5-Notice	Configured feature '[chars]' from [chars]:[dec] via [chars] user [chars] session [dec], transaction-id [dec]	A change to the running configuration was performed via one of the model-based interfaces NETCONF/SSH/SNMP.	ddmi-infra	Informational only. No action required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
NDBMAN-5-MODEL_RPC_I	5-Notice	RPC '[chars]:[chars]' invoked from [chars]:[dec] via [chars] user [chars] session [dec]	A model remote procedure call was performed via one of the model-based interfaces	ddmi-infra	Informational only. No action required.
NDBMAN-5-RESET	5-Notice	A data provider has stopped.	At least one data provider has stopped.	ddmi-infra	Informational only. No action required.
NDBUTIL-4-OUT_OF_RANGE_FOR_DECIMAL64_AND_FD	4-Warning	Double (%1$s) with value (%2$lf) is out-of-range (-%3$llu to %3$llu, exclusive) for a Decimal64 with fraction-digits = %4$d.	The value of the EI double cannot be reliably converted to Yang Decimal64 with the specified fraction-digits with the proper precision, so the EI to Yang conversion is intentionally failing. The EI value should not be this big, so there's an error with the module setting the attribute's value.	ddmi-infra	Report an error to the Cisco engineering team responsible for the module that's setting the attribute.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
NEIGHBORHOOD_LOG-5-AP_NEIGHBORHOOD_APPLY	5-Notice	AP neighborhood based algorithm applied. [dec] number of APs have been load-balanced across WNCd instances.	RF based AP neighborhood algorithm is applied	ewlc-ap	If this message occurs, it implies that number of APs required load-balanced as per the load-balancing output
NEIGHBORHOOD_LOG-5-AP_NEIGHBORHOOD_DONE	5-Notice	AP clustering and WNCD assignment algorithm completed. [dec] number of AP neighborhoods formed and ready to load-balance across WNCD instances.	RF based AP clustering formation is done and neighborhoods have been allocated the WNCD instances	ewlc-ap	If this message occurs, it implies that all AP can be loadbalanced by using exec apply CLI or reload of the controller
NEIGHBORHOOD_LOG-5-AP_NEIGHBORHOOD_START	5-Notice	Starting AP clustering and WNCD assignment algorithm. Total number of APs collected for calculation: [dec].	Notification to start the neighborhood calcultion	ewlc-ap	If this message occurs, Neighborhood algorithm is in progress.
NEIGHBORHOOD_LOG-5-AP_NEIGHBORHOOD_TIMER_EVENT	5-Notice	RRM based AP neighborhood algorithm cannot be started within 1 hour of system boot on calendar profile timer expiry event.	Calander profile start timer expiry event is ignored	ewlc-ap	If this message occurs, it implies that AP neighborhood algorithm is not started on timer expiry event.
NEIGHBORHOOD_LOG-5-AP_NEIGHBORHOOD_UNSUPORIED	5-Notice	RF based AP neighborhood load-balancing is not applicable to this platform. Please unconfigure calendar profile from ap neighborhood global configuration.	Calander profile timer event callback handling error	ewlc-ap	If this message occurs, it implies that a calander profile is attached to ap neighborhood config on an unsupported platform

Facility-Severity-Mnemonic	Severity Level	Message	Message Explanation	Component	Recommended-Action
NIF_MGR-6-DAD	6-Information	Dual Active detected: [chars]\n	Dual Active detected print on console.	iosxe-fwdmgr	No action. Action is only after recovery mode
NIF_MGR-6-DAD_RECOVERY_MODE	6-Information	Dual Active detected: Switch going into recovery mode [chars].\n	Dual Active detected print on console.	iosxe-fwdmgr	This switch need to be reloaded once user finishes debugging
NIF_MGR-6-DAD_RECOVERY_RELOAD_ALERT	6-Information	Switch is in recovery mode, needs Reload now. [chars].\n	Switch is in recovery mode, needs Reload now	iosxe-fwdmgr	This switch need to be reloaded since some correction is noticed
NIF_MGR-6-DOMAIN_NUMBER_MISMATCH	6-Information	Stackwise virtual domain number mismatch on stackwise virtual link [dec]\n	A port associated with a stackwise virtual link is connected to a peer with a different domain number than the local switch	iosxe-fwdmgr	For the switch to form a stack please configure same domain numbers on both the switches
NIF_MGR-6-PORT_CONNECTION_STATUS_CHANGE	6-Information	PORT:[chars] changed state from [chars] to [chars].\n	FSS Stack Port status change message.	iosxe-fwdmgr	No action is required
NIF_MGR-6-PORT_CONN_DISCONNECTED	6-Information	[chars] on front side stack link [dec] connection has DISCONNECTED: [chars]\n	A port associated with a front side stack link has disconnected connection.	iosxe-fwdmgr	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
NIF_MGR-6-PORT_CONN_ERR	6-Information	[chars] on front side stack link [dec] connection is in ERR-DISABLE: [chars]\n	A port associated with a front side stack link has reached err-disable state.	iosxe-fwdmgr	No action is required
NIF_MGR-6-PORT_CONN_PENDING	6-Information	[chars] on front side stack link [dec] connection is PENDING.\n	A port associated with a front side stack link has a pending connection.	iosxe-fwdmgr	No action is required
NIF_MGR-6-PORT_CONN_READY	6-Information	[chars] on front side stack link [dec] connection is READY.\n	A port associated with a front side stack link has a ready connection.	iosxe-fwdmgr	No action is required
NIF_MGR-6-PORT_CONN_TIMEOUT	6-Information	[chars] on front side stack link [dec] connection has TIMEOUT: [chars]\n	A port associated with a front side stack link has disconnected connection.	iosxe-fwdmgr	No action is required
NIF_MGR-6-PORT_LINK_DOWN	6-Information	[chars] on front side stack link [dec] is DOWN.\n	A port associated with a front side stack link has come up.	iosxe-fwdmgr	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
NIF_MGR-6-PORT_LINK_UP	6-Information	[chars] on front side stack link [dec] is UP.\n	A port associated with a front side stack link has come up.	iosxe-fwdmgr	No action is required
NIF_MGR-6-STACK_LINK_DOWN	6-Information	Front side stack link [dec] is DOWN.\n	A port associated with a front side stack link has come up.	iosxe-fwdmgr	No action is required
NIF_MGR-6-STACK_LINK_UP	6-Information	Front side stack link [dec] is UP.\n	A port associated with a front side stack link has come up.	iosxe-fwdmgr	No action is required
NIM_XXD-3-DISK_ERROR	3-Error	Error detected on disk [dec] in module [chars] in subslot [dec]/[dec]. [chars].	Disk error detected in the SPA (NIM-SSD/HDD). Refer to comment for details.	iosxe-chassismgr	Back-up any data and replace the disk.
NIM_XXD-3-DISK_REMOVAL	3-Error	One or more disks in SPA ([chars]) in subslot [dec]/[dec] can not be detected. Please power down this SPA and insert disk(s).	Disks have been removed from SPA	iosxe-chassismgr	Power down the SPA, insert disks and power up the SPA.
NIM_XXD-5-DISK_MONITOR	5-Notice	Disk [dec] in module [chars] in subslot [dec]/[dec] is detected but monitoring is not available.	Monitoring of disk in SPA (NIM-SSD/HDD) is unavailable.	iosxe-chassismgr	Add a database file with monitoring information for this disk model and manufacturer.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
NMSP_SYSLOG-3-NMSP_DB_LOCK_NOT_ACQUIRED	3-Error	NMSP client application is expected to acquire lock for NMSP local database before calling NMSP API: [chars]	Locking sequence for the DB's is defined in this application. The locking order of DB's needs to be followed as per the application set order, where local DB come first. NMSP client application must acquire local DB lock before calling NMSP API	ewlc-nmsp	LOG_STD_ACTION
NMSP_SYSLOG-3-NMSP_HTTPS_ERROR_CONFIG	3-Error	nmspd cloud service config error: [chars]	Configuration error prevented successful connection to CMX cloud service.	ewlc-nmsp	Check configuration of cmx cloud service, e.g. server URL and token.
NMSP_SYSLOG-3-NMSP_HTTPS_ERROR_CRYPTO	3-Error	nmspd HTTPS error: [chars]	Peer verification of CMX cloud service failed.	ewlc-nmsp	Check that server certificate can be verified by root CA certificates in trustpool of crypto PKI.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
NMSP_SYSLOG-3-NMSP_SSL_ERROR_CERT	3-Error	nmspd TLS certificate error: [chars]	Error validating TLS certificate for incoming CMX connection	ewlc-nmsp	Check that certificates and SHA2 key are properly setup on eWLC. Contact TAC if issue persists.
NMSP_SYSLOG-3-NMSP_SSL_ERROR_DISCONNECT	3-Error	nmspd TLS disconnection: [chars]	Remote CMX connection over TLS protocol had been dropped.	ewlc-nmsp	Check connectivity with CMX, CMX service status and AAA configuration.
NMSP_SYSLOG-3-NMSP_SSL_ERROR_INTERNAL	3-Error	nmspd internal error occured when handling TLS connection: [chars]	Internal eWLC error prevented successful establishment of CMX connection over TLS protocol	ewlc-nmsp	Check availability of the system resources of the eWLC controller: memory, open files, sockets. Contact TAC if issue persists
NMSP_SYSLOG-5-NMSP_HTTPS_INTERFACE_NOTICE	5-Notice	nmspd HTTPS info: [chars]	Wireless management interface notification.	ewlc-nmsp	No action required.
NMSP_SYSLOG-5-NMSP_HTTPS_NOTICE	5-Notice	nmspd HTTPS info: [chars]	This is an informational message.	ewlc-nmsp	No action required.
NMSP_SYSLOG-5-NMSP_SSL_NOTICE	5-Notice	nmspd TLS notice: [chars]	This is an informational message.	ewlc-nmsp	No action required.
NODE_HDLR-1-DUAL_ACTIVE_CFG_MSG	1-Alert	Dual Active Detection [chars]\n	Switch detected availability or unavailability of Dual Active Detection ports.	iosxe-fwdmgr	No action is required

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
NODE_HDLR-1-EPA_MISMATCH	1-Alert	[chars]. The mis-match may caused by hardware failure or different EPA types.\n	The Standby EPA mismatch with Active EPA.	iosxe-fwdmgr	Need to make them match
NODE_HDLR-1-FATAL_ERR	1-Alert	Stack manager encountered an unrecoverable error. [chars]\n	The stack manager process has encountered an unrecoverable error and the switch is being reloaded.	iosxe-fwdmgr	Please ensure valid switch numbers are being used. If you still believe there is an error in the system, please send the system report to a TAC representative
NODE_HDLR-1-LIC_MISMATCH	1-Alert	License level is [chars] and needs to be upgraded to [chars] for Stackwise Virtual to function.\n	Current Licnese level on active switch does not support Stackwise Virtual.	iosxe-fwdmgr	Need to be upgraded to supported license level
NODE_HDLR-1-RELOAD	1-Alert	Reloading due to reason [chars]\n	The specified switch has received a reload request and is being reloaded.	iosxe-fwdmgr	No action is required
NODE_HDLR-1-RELOAD_REQUEST	1-Alert	Received reload request for [chars], reason [chars]\n	The specified switches are being reloaded.	iosxe-fwdmgr	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
NODE_HDLR-1-STACK_MERGE_IGNORE	1-Alert	Stack Merge Ignored [chars]\n	Switch detected multiple Active switches. But stack-merge is being ignored.	iosxe-fwdmgr	No action is required
NODE_HDLR-4-SWITCH_ADDED	4-Warning	[chars] [dec] has been added to the stack.\n	The specified switch has been added to the stack.	iosxe-fwdmgr	No action is required
NODE_HDLR-4-SWITCH_REMOVED	4-Warning	[chars] [dec] has been removed from the stack.\n	The specified switch has been removed from the stack.	iosxe-fwdmgr	No action is required
NODE_HDLR-5-CHASSIS_ROLE_UPDATE_FAIL	5-Notice	Failed to Set [chars] Chassis [dec] chassis_role [chars]	This is used to indicate that update to new role failed	iosxe-fwdmgr	This is a rare failure condition. Please reach out to TAC
NODE_HDLR-5-FAST_RELOAD_DONE	5-Notice	Fast reload operation completed successfully on entire stack	This is used to indicate that the fast reload on stack is complete.	accsw-p-fsu	No action needed. This is not an error.
NODE_HDLR-6-ACTIVE_ELECTED	6-Information	[chars] [dec] has been elected ACTIVE.\n	The specified switch has been elected active.	iosxe-fwdmgr	No action is required

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
NODE_HDLR-6-ACTIVE_READY	6-Information	Active [chars] [dec] is ready.\n	The active switch is ready.	iosxe-fwdmgr	No action is required
NODE_HDLR-6-CHASSIS_ADDED	6-Information	[chars] [dec] has been added to the stack.\n	The specified chassis has been added to the stack.	iosxe-fwdmgr	No action is required
NODE_HDLR-6-CHASSIS_READY	6-Information	[chars] [dec] is ready.\n	The specified chassis is ready.	iosxe-fwdmgr	No action is required
NODE_HDLR-6-CHASSIS_REMOVED	6-Information	[chars] [dec] has been removed from the stack.\n	The specified chassis has been removed from the stack.	iosxe-fwdmgr	No action is required
NODE_HDLR-6-CHASSIS_REMOVED_KA	6-Information	[chars] [dec] has been removed from the stack due to keepalive failure. \n	Chassis has been removed due to the keepalive failure.	iosxe-fwdmgr	No action is required
NODE_HDLR-6-DISC_DONE	6-Information	[chars] [dec] has finished stack discovery.\n	The specified switch has completed stack discovery and is moving to the election phase.	iosxe-fwdmgr	No action is required
NODE_HDLR-6-DISC_START	6-Information	[chars] [dec] is starting stack discovery.\n	The specified switch is starting stack discovery.	iosxe-fwdmgr	No action is required

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
NODE_HDLR-6-KA_MISSED	6-Information	Keepalive missed for [dec] times for [chars] [dec] \n	Chassis has been removed due to the keepalive failure.	iosxe-fwdmgr	No action is required
NODE_HDLR-6-STACK_LINK_CHANGE	6-Information	Stack port [dec] on [chars] [dec] is [chars]\n	The specified stack port has changed status.	iosxe-fwdmgr	No action is required
NODE_HDLR-6-STANDBY_ELECTED	6-Information	[chars] [dec] has been elected STANDBY.\n	The specified switch has been elected standby.	iosxe-fwdmgr	No action is required
NODE_HDLR-6-SWITCH_READY	6-Information	[chars] [dec] is ready.\n	The specified switch is ready.	iosxe-fwdmgr	No action is required
NPI_L3TUNNEL_ERRMSG-3-MAX_TUNNEL	3-Error	The maximum number of Tunnel has been reached\n	Hardware resource allocation has failed and the entry will not be programmed.	INVALID	New Tunnels will not be working as expected.
NPU_PDSF-2-STACK_LINK_MONITOR	2-Critical	NPU-2-STACK-LINK [chars] \n	Stack port mac params is not as expected	INVALID	Try doing stack cable oir or replace the stack cable or try doing PRBS testing

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
ODM_SERVER_ERRMSG-3-ODM_TABLE_REGISTER_DB_NOT_CONFIG	3-Error	Client ([chars]/[dec]) table [[chars]/[chars]] registration DB [[chars]] is not found in server configuration	ODM client is registering its monitored TDL database tables to ODM server daemon. But ODM server daemon doesn't have requested (consolidated) database information.	iosxe-p-db	LOG_STD_ACTION
ODM_SERVER_ERRMSG-3-ODM_TABLE_REGISTER_TABLE_NOT_CONFIG	3-Error	Client ([chars]/[dec]) table [[chars]/[chars]] registration table is not found in server DB [[chars]] configuration	ODM client is registering its monitored TDL database tables to ODM server daemon. But ODM server daemon doesn't have requested table information in consolidated database.	iosxe-p-db	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
ODM_SERVER_ERRMSG-4-ODM_TABLE_REGISTER_CONFIG_MISMATCH	4-Warning	Client ([chars]/[dec]) table [[chars]/[chars]] registration table configuration (0x%x) mis-matched with server configuration (0x%x)	ODM client is registring its monitored TDL database tables to ODM server daemon. But ODM table configuration is not matched between client and server.	iosxe-p-db	LOG_STD_ACTION
OMPD-3-PEER_STATE_INIT	3-Error	[chars] peer [chars] state changed to Init	This syslog is generated when OMP peer state changes to INIT	vip-omp	No action is required
OMPD-3-STATE_DOWN	3-Error	Operational state changed to [chars]	This syslog is generated when Cisco SD-WAN Overlay Management Protocol (OMP) goes DOWN	vip-omp	No action is required
OMPD-5-PEER_STATE_UP	5-Notice	[chars] peer [chars] state changed to Up	This syslog is generated when OMP peer state changes to UP	vip-omp	No action is required

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
OMPD-5-STATE_UP	5-Notice	Operational state changed to [chars]	This syslog is generated when Cisco SD-WAN Overlay Management Protocol (OMP) comes UP	vip-omp	No action is required
OMPD-6-NUMBER_OF_VSMARTS	6-Information	Number of vSmarts connected : [dec]	This info log is generated whenever SD-WAN edge device either establishes (or) looses connection with SD-WAN Controller nodes	vip-omp	No action is required
OMPD-6-PEER_STATE_HANDSHAKE	6-Information	[chars] peer [chars] state changed to Handshake	This syslog is generated when OMP peer state changes to HANDSHAKE	vip-omp	No action is required

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
OOM-0-NO_MEMORY_RESET	0-Emergency	The system is completely out of available memory. The board will be reset.	The system has exhausted all available memory and the hardware component will be reset.	iosxe-infra-sub-ui	Review other messages related to low memory states and see if those messages contain any information about an issue that can be addressed. If this problem persists, copy all the output from the console as well as the output of show tech-support, and provide the gathered information to your Cisco technical support representative.
OOM-3-NO_MEMORY_AVAIL	3-Error	The system is very low on available memory. Operations will begin to fail.	The system has exhausted all available memory. It is not possible to continue stable operation.	iosxe-infra-sub-ui	The system has exhausted all available memory and stable operation is no longer possible.

P to T

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
PAE_CORE_TEST-6-REPORT_ID	6-Information	Created report id: [chars]	Result of the test report request	iosxe-ui	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
PAM_UPDB-3-NOENVIRONMENT_SET	3-Error	Error setting user in application environment: [chars]	The user has succesfully authenticated, but the user information could not be saved to the application environment. The user session will not proceed.	iosxe-binos-utils	LOG_STD_RECUR_ACTION
PAM_UPDB-3-NOPROMPT_READ	3-Error	Error reading [chars] prompt: [chars]	The authentication module was unable to read the specified prompt file. The default prompt will be used.	iosxe-binos-utils	LOG_STD_RECUR_ACTION
PCGW_HA_LIB_MESSAGE-3-BULK_SYNC_STATE_ERR	3-Error	Error: Bulk sync status : [chars]	Bulk sync status Error message. TERMINATED - Bulk-sync terminated	pcgw-ha	LOG_STD_NO_ACTION
PCGW_HA_LIB_MESSAGE-3-PCGW_CONFIG_SYNC_FAIL	3-Error	Error: pcgw config sync not complete. Reloading the PCGW!	Switchover happens before pcgw config sync is complete!	pcgw-ha	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
PCGW_HA_LIB_MESSAGE-6-BULK_SYNC_STATE_INFO	6-Information	INFO: Bulk sync status : [chars]	Bulk sync status INFO message. COLD - Bulk-sync ongoing. CONFIG_DONE - critical DB sync complete. WARM - Most of the DB's synced. HOT - Bulk-sync completed	pcgw-ha	LOG_STD_NO_ACTION
PEER_SELECTION-5-EWC_PEER_SELECTION_ADD_EV	5-Notice	ADD event: [chars]	Reports an important HA peer (a.k.a. standby) selection ADD event	iosxe-binos-utils	LOG_STD_NO_ACTION
PEER_SELECTION-5-EWC_PEER_SELECTION_PREFER_EV	5-Notice	Preferred master event: [chars]	Reports an important HA peer (a.k.a. standby) selection preferred master event	iosxe-binos-utils	LOG_STD_NO_ACTION
PEER_SELECTION-5-EWC_PEER_SELECTION_REMOVE_EV	5-Notice	REMOVE event: [chars]	Reports an important HA peer (a.k.a. standby) selection REMOVE event	iosxe-binos-utils	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
PEER_SELECTION-5-EVENT_PEER_SELECTION_SELECT_EV	5-Notice	SELECT event: [chars]	Reports an important HA peer (a.k.a. standby) selection SELECT event	iosxe-infrastructure	LOG_STD_NO_ACTION
PLATFORM-2-NPU_MEMORY_ERROR	2-Critical	NPU EVENT: Detected memory errors on ASIC INST([dec])\n	NPU memory errors reached threshold	INVALID	This message appears on the switch when the Network Processing Unit (NPU) reaches the maximum allowable threshold for memory errors as specified by the hardware design. Exceeding this threshold could affect the switch behavior, depending on which memory modules are experiencing errors. Collecting detailed information about the memory errors is recommended using the command 'show platform hardware fed switch active fwd-asic insight device_ecc_counters'. Additionally, reloading the switch is advised to determine if the memory errors persist.
PLATFORM-2-S1_ASIC_FABRIC_BW_ABOVE_THRESHOLD	2-Critical	S1 ASIC EVENT: The number of fabric ports in the S1 ASIC [dec] are above the system threshold.\n	Silicon one ASIC fabric port threshold event	INVALID	Check the fabric info for the S1 ASIC
PLATFORM-2-S1_ASIC_FABRIC_BW_BELOW_THRESHOLD	2-Critical	S1 ASIC EVENT: The number of fabric ports in the S1 ASIC [dec] are below the system threshold.\n	Silicon one ASIC fabric port threshold event	INVALID	Check the fabric info for the S1 ASIC

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PLATFORM-2-S1_ASIC_THROTTLING_DISABLE	2-Critical	S1 ASIC EVENT: S1 ASIC [dec] temperature is back to normal. Traffic throttling is disabled now.\n	Silicon one ASIC overheating event	INVALID	Copy the message exactly as it appears on the console or in the system log
PLATFORM-2-S1_ASIC_THROTTLING_ENABLE	2-Critical	S1 ASIC EVENT: A high temperature condition is detected in S1 ASIC [dec]. The system will automatically enable traffic throttling in an attempt to restore temperatures and prevent permanent damage to the ASIC. Traffic drops are expected in this scenario and normal traffic behaviour will resume after the ambient ASIC temperatures are restored.\n	Silicon one ASIC overheating event	INVALID	Check the ambient temperature of the room and check for blockages in airflow
PLATFORM-3-ELEMENT_CRITICAL	3-Error	[chars]: [chars] value [chars] [chars] critical level [chars]. [chars]	The Shell Manager monitors the health of each board and emits an error message when a value has passed a critical level.	iosxe-shellmgr	Reduce static and dynamic loads on the system by reducing the number of elements in the configuration or by limiting the capacity for dynamic services.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PLATFORM-3-ELEMENT_TMPFS_CRITICAL	3-Error	[chars]: TMPFS value [dec]%% above critical level [dec]%%	The Shell Manager monitors the tmpfs usage of each board and emits an error message when a value has passed warning level. The critical level is computed based on total DRAM memory. Currently the critical level is 50% of total DRAM memory	iosxe-shelmgr	Emit syslog message with current tmpfs usage, warning level along with location of the board in which the error is happening

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PLATFORM-3-ELEMENT_TMPFS_WARNING	3-Error	[chars]: TMPFS value [dec]%% above warning level [dec]%%	The Shell Manager monitors the tmpfs usage of each board and emits an error message when a value has passed warning level.The warning level is computed based on total DRAM memory. Currently the warning level is 40% of total DRAM memory	iosxe-shellmgr	Emit syslog message with current tmpfs usage, warning level along with location of the board in which the error is happening
PLATFORM-4-ELEMENT_WARNING	4-Warning	[chars]: [chars] value [chars] [chars] warning level [chars]. [chars]	The Shell Manager monitors the health of each board and emits a warning message when a value has passed a critical level.	iosxe-shellmgr	Reduce static and dynamic loads on the system by reducing the number of elements in the configuration or by limiting the capacity for dynamic services.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PLATFORM-5-RESETCARD	5-Notice	[chars] reset to acquire provisioned software	The linecard specified was not running the currently provisioned software, which it will acquire on restart.	iosxe-infra-utils	No user action is necessary. This message indicates the system is functioning normally and is provided for informational purposes only.
PLATFORM-6-STACK_LINK_CHANGE	6-Information	Stack port [dec] on [chars] [dec] is [chars]\n	The specified stack port has changed status.	iosxe-fwdmgr	No action is required
PLATFORM_MGR-1-PLATMGR_INIT_FAIL	1-Alert	Platform Manager: [chars]\n	Platform Manager Initialization has failed.	platform_mgr	Find out more about the error by using the show tech-support privileged EXEC command 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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PMAN-0-PROCESS_NOTIFICATION	0-Emergency	The process lifecycle notification component failed because [chars]	The process lifecycle notification component failed, preventing proper detection of a process start and stop. This problem is likely the result of a software defect in the software sub-package.	iosd-base-mgr	Note the time of the message and investigate the kernel error message logs to learn more about the problem and see if it is correctable. If the problem cannot be corrected or the logs are not helpful, copy the error message exactly as it appears on the console along with the output of show tech-support and provide the gathered information to a Cisco technical support representative.
PMAN-0-PROCFAILCRIT	0-Emergency	A critical process [chars] has failed (rc [dec])	A process important to the functioning of the router has failed.	iosd-base-mgr	Note the time of the message and investigate the error message logs to learn more about the problem. If the problem persists, copy the error message and the output of show platform software tech-support into a plaintext file and contact Cisco technical support with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PMAN-3-PROCFAIL	3-Error	The process [chars] has failed (rc [dec])	The process has failed as the result of an error.	This message is usually caused by a software error.	This message will appear with other messages related to the process. Check the other messages to determine the reason for the failures and see if corrective action can be taken. If the problem persists, copy the error messages and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.
PMAN-3-PROCFAILOPT	3-Error	An optional process [chars] has failed (rc [dec])	A process that does not affect the forwarding of traffic has failed.	This message is usually caused by a software error.	Note the time of the message and investigate the kernel error message logs to learn more about the problem. Although traffic will still be forwarded after receiving this message, certain functions on the router may be disabled as a result of this message and the error should be investigated. If the logs are not helpful or indicate a problem you cannot correct, copy the error message as it appears on the console and the output of show tech-support and provide the information to a Cisco technical support representative.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
PMAN-3-PROCFAIL_IGNORE	3-Error	[chars] process exits and failures are being ignored due to debug settings. Normal router functionality will be affected. Critical router functions like RP switchover, router reload, FRU resets, etc. may not function properly.	A process exit or failure is being ignored due to the user-configured debug settings.	infrastructure	If this behavior is desired and the debug settings are set according to the user's preference, no action is needed. If the appearance of this message is viewed as a problem, change the debug settings. The router is not expected to behave normally with this debug setting. Functionality like SSO switchover, router reloads, FRU resets, etc. will be affected. This setting should only be used in a debug scenario. It is not normal to run the router with this setting
PMAN-3-PROCHOLDDOWN	3-Error	The process [chars] has been helddown (rc [dec])	The process was restarted too many times with repeated failures and has been placed in the holddown state.	infrastructure	This message will appear with other messages related to the process. Check the other messages to determine the reason for the failures and see if corrective action can be taken. If the problem persists, copy the error messages and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.
PMAN-3-PROC_BAD_COMMAND	3-Error	Non-existent executable or bad library used for process [chars]	The executable file used for the process is missing or a dependent library is bad	infrastructure	Make sure that the named executable is present and dependent libraries are good

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PMAN-3-PROC_BAD_EXECUTABLE	3-Error	Bad executable or permission problem with process [chars]	The executable file used for the process is bad or has permission problem	iosd-ha-mgr	Make sure that the named executable is replaced with correct executable
PMAN-3-PROC_EMPTY_EXEC_FILE	3-Error	Empty executable used for process [chars]	The executable file used for the process is empty	iosd-ha-mgr	Make sure that the named executable is of non-zero size
PMAN-3-PROC_RESTART_CNT_EXCEEDED	3-Error	The process [chars] restart count ([dec]) has exceeded the configured limit ([dec])	The process was restarted many times and has exceeded the configured limit.	iosd-ha-mgr	This message will appear with other messages related to the process. Check the other messages to determine the reason for the failures and see if corrective action can be taken. If the problem persists, copy the error messages and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.
PMAN-3-RELOAD_FRU_IGNORED	3-Error	All [chars]/[dec] reloads are being ignored. This is being done for debugging purposes and will be changed at a later time to allow the reload. Critical router functions like RP switchover, router reload, FRU resets, etc. may not function properly.	A supervisor failure is being ignored due to debugging purposes.	iosd-ha-mgr	This will be removet at a later point in time

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PMAN-3-RELOAD_RP	3-Error	Reloading: [chars]	The RP is being reloaded	ios-chassis-mgr	Make sure this is not due to an error condition. If it is due to an error condition, collect information requested by the other log messages
PMAN-3-RELOAD_RP_SB_NOT_READY	3-Error	Reloading: [chars]	The RP is being reloaded since there is no ready standby instance	ios-chassis-mgr	Make sure this is not due to an error condition
PMAN-3-RELOAD_SYSTEM	3-Error	Reloading: [chars]	The system is being reloaded	ios-chassis-mgr	Make sure this is not due to an error condition. If it is due to an error condition, collect information requested by the other log messages
PMAN-3-RPSWITCH	3-Error	RP switch initiated. Critical process [chars] has failed (rc [dec])	A RP switchover has been initiated due to a critical fault	ios-chassis-mgr	Make sure this is not due to an error condition. If it is due to an error condition, collect debug information like all console output and log files
PMAN-5-EXITACTION	5-Notice	Process manager is exiting: [chars]	The process manager is exiting	ios-chassis-mgr	Make sure this is not due to an error condition. If it is due to an error condition, collect information requested by the other log messages
PMAN-6-PROCSHUT	6-Information	The process [chars] has shutdown	The process has gracefully shutdown.	ios-chassis-mgr	No user action is necessary. This message is provided for informational purposes only.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
PMAN-6-PROCSTART	6-Information	The process [chars] has started	The process has launched and is operating properly.	iosd-base/sysmgr	No user action is necessary. This message is provided for informational purposes only.
PMAN-6-PROCSTATELESS	6-Information	The process [chars] is restarting stateless	The process has requested a stateless restart.	iosd-base/sysmgr	No user action is necessary. This message is provided for informational purposes only.
PMAN-6-PROC_PATCH	6-Information	Process [chars] restarted to apply/remove a patch	Process will be relaunched to apply/remove a patch	iosd-base/sysmgr	No user action is necessary. This message is provided for informational purposes only.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
POLICY-3-DATA_POLICY_COMMIT_FAILURE	3-Error	Data policy commit failure error, reason: [chars] ([chars])	This error syslog is generated when OMP daemon is not able to commit data policies config, received from SD-WAN Controller, into config database. This can happen when there multiple commits (writes) happening in parallel. SD-WAN edge device will not be able to apply centralized data policies to traffic	vip-omp	No action is required, the system should recover after sometime when OMP daemon would retry committing data policy config into CDB

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
POLICY-3-TAG_INSTANCES_COMMIT_FAILURE	3-Error	Tag instances commit failure error, reason: [chars] ([chars])	This error syslog is generated when OMP daemon is not able to commit tag instances config, received from SD-WAN Controller, into config database. This can happen when there multiple commits (writes) happening in parallel SD-WAN edge device will not be able to apply centralized data policies to traffic	vip-omp	No action is required, the system should recover after sometime when OMP daemon would retry committing tag instance config into CDB

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
POLICY-5-EMPTY_POLICY_FROM_PEER	5-Notice	Using empty policy from peer [chars]	This syslog is generated when Cisco SD-WAN Controller does not push (or) removes centralized data policy from cEdge device	vip-omp	No action is required
POLICY-5-NO_POLICY	5-Notice	Not using any policy	This syslog is generated when there are no OMP connections to Cisco SD-WAN Controller and Graceful Restart timer has also expired. Existing centralized data policy is removed	vip-omp	No action is required

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
POLICY-5-POLICY_FROM_PEER	5-Notice	Using policy from peer [chars]	This syslog is generated whenever data-policy config received from Cisco SD-WAN Controller is programmed into data path	vip-omp	No action is required
PRELIB_DL-3-UNREGISTERED_DLOPEN	3-Error	Unregistered request to dlopen library [chars]	The program is attempting to dynamically open a library that has not been explicitly listed on its list of dynamically opened libraries. This represents a potential security threat as well as creates potential run-time instabilities	iosxe-bmcs-utils	File a DDTS against the listed program to register the library in question. If this was an unexpected call to dlopen then the source of the call should be root-caused and closed
PSD_MOD-3-DMI_DIR_CREATE_FAIL	3-Error	PSD/DMI: Failed to create directory: [chars] ([chars])	An error has occurred when attempting to create a directory.	ddmi-infra	Log a message

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PSD_MOD-3-DMI_DIR_DELETE_FAIL	3-Error	PSD/DMI: Failed to delete directory: [chars] ([chars])	An error has occurred when attempting to delete a directory.	ddmi-infra	Log a message
PSD_MOD-3-DMI_FILE_CREATE_FAIL	3-Error	PSD/DMI: Failed to create file: [chars] ([chars])	An error has occurred when attempting to create a file.	ddmi-infra	Log a message
PSD_MOD-3-DMI_FILE_DELETE_FAIL	3-Error	PSD/DMI: Failed to delete file: [chars] ([chars])	An error has occurred when attempting to delete a file.	ddmi-infra	Log a message
PSD_MOD-3-SD_ROUTING_DMI_REQUIRED	3-Error	PSD/SD-ROUTING: Please configure netconf-yang to activate the sd-routing feature	SD-Routing depends upon DMI	cntl-mng-rtg	Not applicable
PSD_MOD-5-DMI_NOTIFY_NETCONF_START	5-Notice	PSD/DMI: netconf-yang server has been notified to start	A specific informational message from psd_mod	ddmi-infra	Not applicable
PSD_MOD-5-DMI_NOTIFY_NETCONF_STOP	5-Notice	PSD/DMI: netconf-yang server has been notified to stop	A specific informational message from psd_mod	ddmi-infra	Not applicable
PSD_MOD-5-DMI_NOTIFY_RESTARTING	5-Notice	PSD/DMI: netconf-yang and/or restconf will now be restarted, and any sessions in progress will be terminated	A specific informational message from psd_mod	ddmi-infra	Not applicable

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
PSD_MOD-5-DMI_NOTIFY_RESTCONF_START	5-Notice	PSD/DMI: restconf server has been notified to start	A specific informational message from psd_mod	ddmi-infra	Not applicable
PSD_MOD-5-DMI_NOTIFY_RESTCONF_STOP	5-Notice	PSD/DMI: restconf server has been notified to stop	A specific informational message from psd_mod	ddmi-infra	Not applicable
PSD_MOD-5-DMI_NOTIFY_USER	5-Notice	PSD/DMI: [chars]	An informational message from psd_mod	ddmi-infra	Not applicable
PSD_MOD-5-PSID_NOTIFY_SYSTEM_INTEGRITY_START	5-Notice	SYSTEM INTEGRITY: pistis daemon has been notified to start	A specific informational message from psd_mod	polaris-infra	Not applicable
PSD_MOD-5-PSID_NOTIFY_SYSTEM_INTEGRITY_STOP	5-Notice	SYSTEM INTEGRITY: pistis daemon has been notified to stop	A specific informational message from psd_mod	polaris-infra	Not applicable
PSD_MOD-5-SD_ROUTING_NOTIFY_START	5-Notice	PSD/SD-ROUTING: SD-Routing server has been notified to start	A specific informational message from psd_mod	cntrl-mng-rtg	Not applicable
PSD_MOD-5-SD_ROUTING_NOTIFY_STOP	5-Notice	PSD/SD-ROUTING: SD-Routing server has been notified to stop	A specific informational message from psd_mod	cntrl-mng-rtg	Not applicable

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
PTHUTIL-3-EVENT_HANDLER	3-Error	Task [chars] has no [chars] event handler	The task specified has failed to install a handler for the specified event. This implies that the event has been dropped.	ios-libios-util	LOG_STD_ACTION
PTHUTIL-3-SCHED_EMPTY	3-Error	Scheduler has no tasks available	The Pth scheduler has detected that there is no task available to run. This is an error condition for the process itself is a task.	ios-libios-util	LOG_STD_ACTION
PTHUTIL-3-SCHED_FD_OVERFLOW	3-Error	Scheduler has more than [dec] FDs	The are too many FDs for the Pth scheduler. This is an error condition for the process itself.	ios-libios-util	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PTHUTIL-3-STACK_OVERFLOW	3-Error	Task [chars] stack overflow	A Pth task has overflowed its stack. This has been detected by the Pth scheduler and reported.	iosxe-bmc-utils	LOG_STD_ACTION
PTHUTIL-3-TIMER_THRASHING	3-Error	Timer [chars] is thrashing on [chars]	The Pth scheduler has detected that an event has remained on the ready queue after being notified of requiring processing.	iosxe-bmc-utils	LOG_STD_ACTION
PTHUTIL-3-TIMER_UPDATE	3-Error	Timer [chars] update of [chars] not updated [dec]	The attempt to update a watched timer has failed due to either the timer not existing or the inability to move the timer to its new position post update.	iosxe-bmc-utils	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PTPD-0-CHASFS_OBJECT_CREATE	0-Emergency	Failed to create chassis filesystem object [chars] because [chars]	The hardware failed to create a chassis filesystem object.	asr900-ptp	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.
PTPD-0-CHASFS_OBJECT_NOT_PRESENT	0-Emergency	Expected chassis filesystem object [chars] not present.	A chassis filesystem object expected to be present is not. This could be due to a software defect or filesystem failure.	asr900-ptp	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.
PTPD-0-CHASFS_OBJECT_WATCH	0-Emergency	Failed to watch chassis filesystem object [chars] because [chars]	A chassis filesystem object was not watched because of the reason stated in the error message.	asr900-ptp	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.

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
PTPD-0-CHASFS_PROPERTY_CREATE	0-Emergency	Failed to create chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property was not properly created.	asr900-ptp	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.
PTPD-0-CHASFS_PROPERTY_GET	0-Emergency	Failed to read chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property was not properly read by the system.	asr900-ptp	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.
PTPD-0-CHASFS_PROPERTY_NOT_PRESENT	0-Emergency	Expected chassis filesystem object [chars] property [chars] not present.	A chassis filesystem object property expected to be present is not. This could be due to a software defect or filesystem failure.	asr900-ptp	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PTPD-0-CHASFS_PROPERTY_SET	0-Emergency	Failed to write chassis filesystem object [chars] property [chars] because [chars]	A chassis filesystem property failed to write.	asr900-ptp	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.
PTPD-0-EVENT_LIBRARY	0-Emergency	An event facility initialization or maintenance function failed because [chars]	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	asr900-ptp	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.
PTPD-0-IPC_CONNECTION_INVALID	0-Emergency	An IPC connection has invalid state.	An IPC connection has an invalid state. This could be due to a software defect or system resource exhaustion.	asr900-ptp	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.

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
PTPD-0-IPC_CONNECT_MASTER	0-Emergency	IPC connection to the active RSP failed because [chars]	IPC connection to the active RSP failed. This could be due to a software defect or system resource exhaustion.	asr900-ptp	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.
PTPD-0-IPC_INITIALIZATION	0-Emergency	IPC initialization failed because [chars]	IPC initialization failed. This could be due to a software defect or system resource exhaustion.	asr900-ptp	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.
PTPD-0-MESSAGE_REGISTER	0-Emergency	Failed to register with active RSP because [chars]	The active RSP failed to register.	asr900-ptp	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PTPD-0-MESSAGE_RELAY	0-Emergency	Failed to relay a message because [chars]	Failed to relay a message. This could be due to a software defect or system resource exhaustion.	asr900-ptp	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.
PTPD-0-MESSAGE_RESPONSE	0-Emergency	An invalid message response was received because [chars]	An invalid message response was received. This could be due to a software defect or system resource exhaustion.	asr900-ptp	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.
PTPD-0-MQIPC_ADVANCE	0-Emergency	Failed to advance MQIPC queue because [chars]	The MQIPC initialization failed.	asr900-ptp	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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
PTPD-0-MQIPC_INITIALIZATION	0-Emergency	MQIPC initialization failed because [chars]	MQIPC initialization failed. This could be due to a software defect or system resource exhaustion.	asr900-ptp	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.
PTPD-0-PEER_TABLE	0-Emergency	A peer table initialization or maintenance function failed because [chars]	A peer table initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	asr900-ptp	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.
PTPD-0-RESOURSE	0-Emergency	Resource allocation failed in [chars] because [chars]	The system is unable to allocate the requested resource.	asr900-ptp	In most cases, this message is seen as a result of a temporary resource issue. Retry the request for the resource when the system is experiencing lower traffic volumes. If the message persists, reload the router using the reload command.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
PTPD-3-CHASFS_OBJECT_DESTROY	3-Error	Failed to destroy chassis filesystem object [chars] because [chars]	A chassis filesystem object that should have been destroyed was not destroyed.	asr900-ptp	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.
PTPD-3-CHASFS_PROPERTY_DESTROY	3-Error	Failed to destroy chassis filesystem proprty [chars]/[chars] because [chars]	A chassis filesystem property that should have been destroyed was not destroyed.	asr900-ptp	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.
QOS_ERROR_MESSAGE-3-QOS_CLIENT_POLICY_AP_INSTALL_FAIL	3-Error	ERROR: Failed to install policy: [chars] for Client: %02x%02x%02x%02x%02x%02x on AP: [chars] with status: [chars]	Client policy install on AP failed.	ewlc-qos	LOG_STD_ACTION
QOS_ERROR_MESSAGE-3-QOS_CLIENT_POLICY_AP_SEND_FAIL	3-Error	ERROR: For Client mac %02x%02x%02x%02x%02x%02x, failed to send policy [chars] to AP due to reason: [chars]	Error Binding Client Policy. Policy not sent to AP	ewlc-qos	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
QOS_ERROR_MESSAGE-3-QOS_CLIENT_POLICY_AP_UNINSTALL_FAIL	3-Error	ERROR: Failed to uninstall policy: [chars] for Client: %02x%02x%02x%02x%02x%02x on AP: [chars] with status: [chars]	Client policy unbind operation on AP failed.	ewlc-qos	LOG_STD_ACTION
QOS_ERROR_MESSAGE-3-QOS_CREATE_POLICY_DB_FAIL	3-Error	ERROR: Unable to allocate resources for QoS Policy Content DB	Internal Error. Unable to allocate resources for QoS Policy Content DB	ewlc-qos	LOG_STD_ACTION
QOS_ERROR_MESSAGE-3-QOS_DOT11_CLIENT_RECORD_NOT_FOUND	3-Error	ERROR: Failed to get dot11 client record for Client: %02x%02x%02x%02x%02x%02x	QoS get function for dot11 client record failed.	ewlc-client	LOG_STD_ACTION
QOS_ERROR_MESSAGE-3-QOS_INVALID_POLICY	3-Error	ERROR: Policy [chars] is invalid in [chars] direction for vapid:[dec]	QoS policy validation failed. Policy will not be installed	ewlc-qos	LOG_STD_ACTION
QOS_ERROR_MESSAGE-3-QOS_MEM_ALLOC_FAIL	3-Error	Error: Failed to allocate memory [chars]	An internal error occurred due to which memory allocation failed	ewlc-qos	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
QOS_ERROR_MESSAGE-3-QOS_MODIFY_POLICY_DB_FAIL	3-Error	ERROR: Unable to modify QoS Policy due to Reason:[chars]	Internal Error. Unable to modify QoS Policy Content in DB	ewlc-qos	LOG_STD_ACTION
QOS_ERROR_MESSAGE-3-QOS_MSG_BLKLIST_CLIENT	3-Error	Blacklisting client %02x%02x%02x%02x%02x%02x Error installing client QOS policy: [chars] in [chars] direction.	Failure occured while installing QoS client policy. Client will be deleted.	ewlc-qos	LOG_STD_ACTION
QOS_ERROR_MESSAGE-3-QOS_POLICY_EXCEED_MAX	3-Error	[dec] policy maps sent to AP [chars], exceeds the recommended [dec]	Number of policies exceeds limit warning.	ewlc-qos	LOG_STD_ACTION
QOS_ERROR_MESSAGE-3-QOS_POLICY_MISSING	3-Error	ERROR: Policy [chars] in [chars] direction for vapid:[dec] has no content	QoS policy validation failed. Policy will not be installed	ewlc-qos	LOG_STD_ACTION
QOS_ERROR_MESSAGE-3-QOS_SSID_INVALID_POLICY	3-Error	ERROR: Policy [chars] is invalid in [chars] direction for vapid:[dec]. Once the policy is modified, the bssid needs to be reset before the new policy-map definition can take effect	QoS BSSID policy validation failed. Policy will not be installed	ewlc-qos	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
QOS_ERROR_MESSAGE-3-QOS_SSID_POLICY_BIND_ON_AP_FAIL	3-Error	ERROR: Failed to bind SSID policy on AP: [chars] for wlan: [dec], Slot id: [dec] in [chars] direction with status: [chars]	SSID policy bind operation failed.	ewlc-qos	LOG_STD_ACTION
QOS_ERROR_MESSAGE-3-QOS_SSID_POLICY_UNBIND_ON_AP_FAIL	3-Error	ERROR: Failed to unbind SSID policy on AP: [chars] for wlan: [dec], Slot id: [dec] in [chars] direction with status: [chars]	SSID policy unbind operation on AP failed.	ewlc-qos	LOG_STD_ACTION
QOS_ERROR_MESSAGE-6-QOS_HA_NO_BSSID_RECORD_SYNC_AP_DELETE	6-Information	Deleting AP %02x%02x%02x%02x%02x%02x because BSSID record sync for slotId [dec] wlan_id [dec] pm_dir [chars] failed	QoS BSSID record sync pre-switchover failed. Hence deleting the AP.	ewlc-qos	LOG_STD_ACTION
RADIUS_AUDIT_MESSAGE-3-ALL_SOURCE_PORT_EXHAUSTED	3-Error	[chars] : Dynamic socket pool limit reached Max : [dec]	All Source ports are exhausted	polaris-aaa	LOG_STD_ACTION
RADIUS_AUDIT_MESSAGE-3-ALL_SOURCE_PORT_EXHAUSTED_AFTER_CLEANUP	3-Error	[chars] : Dynamic socket pool limit is still at Maximmum [dec] after clean up	All Source port are exhausted even after cleanup	polaris-aaa	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
RADIUS_AUDIT_MESSAGE-3-BUFFER_OVERFLOW	3-Error	Radius I/O buffer has overflowed for [chars] with length [dec]	An unusually large number of RADIUS attributes has caused AAA to overflow its RADIUS I/O buffer.	polaris-aaa	LOG_STD_ACTION
RADIUS_AUDIT_MESSAGE-3-RADIUS_PARSE_FAIL	3-Error	Radius Parse FAIL due to op decode/bad packet	When Radius Parse response op decode/bad packet	polaris-aaa	LOG_STD_ACTION
RADIUS_AUDIT_MESSAGE-3-RADIUS_TIMER_FAILED_TO_START	3-Error	Failed to start radius timer.	Radius timer failed to start	polaris-aaa	LOG_STD_ACTION
RADIUS_AUDIT_MESSAGE-3-RADIUS_TIMER_FAILED_TO_STOP	3-Error	Failed to stop radius timer.	Radius timer failed to stop	polaris-aaa	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
RADIUS_AUDIT_MESSAGE-3-SECRETDEFINEFAILED	3-Error	Key definition ignored.	The user is attempting to store either a corrupted shared secret or memory allocation failed during secret definition. Any existing shared secret will be preserved.	polaris-aaa	LOG_STD_ACTION
RADIUS_AUDIT_MESSAGE-3-SOCKET_OPERATION_FAILURE	3-Error	Cannot open UDP socket for service [chars]	The router is unable to open a socket for UDP communications by the indicated service. Most of the time another service might be using the same port.	polaris-aaa	LOG_STD_ACTION
RADIUS_AUDIT_MESSAGE-6-ALLDEADSERVER	6-Information	Group [chars]: No active radius servers found. Id [dec].	This error message occurs when all the servers configured in a server group are found to be unresponsive.	polaris-aaa	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
RADIUS_AUDIT_MESSAGE-6-BADATTRLIST	6-Information	Unable to process attribute list.	The attribute list is syntactically incorrect.	polaris-aaa	LOG_STD_NO_ACTION
RADIUS_AUDIT_MESSAGE-6-INVALID_PACKET	6-Information	Invalid packet posted to RADIUS.	Radius not able to process a packet as it is invalid	polaris-aaa	LOG_STD_NO_ACTION
RADIUS_AUDIT_MESSAGE-6-RADIUS_ALIVE	6-Information	RADIUS server [chars]:[dec],[dec] is being marked alive.	A RADIUS server that previously was not responding has responded to a new request or the deadtimer has expired.	polaris-aaa	LOG_STD_NO_ACTION
RADIUS_AUDIT_MESSAGE-6-RADIUS_DEAD	6-Information	RADIUS server [chars]:[dec],[dec] is not responding.	The server might not be available to serve request. server has not responded to repeated requests.	polaris-aaa	LOG_STD_NO_ACTION
RADIUS_AUDIT_MESSAGE-3-DTLS_DTLS_REPLAY_ATTACK	3-Error	DTLS replay attack for hostname: [chars]	Detected DTLS replay attack	ewlc-qos	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
RADSEC-3-AUDIT_MESSAGE_RADSEC_AUDIT_DTLS_DTLS_EXT2_DTLS_SESSION_ESTABLISHED_FAILURE	3-Error	User ID: [chars] Failure to establish a DTLS session with RadSec server, reason: [chars]	Failure to establish a DTLS session with RadSec server	ewlc-qos	LOG_STD_ACTION
RADSEC-3-AUDIT_MESSAGE_RADSEC_AUDIT_DTLS_RADSEC_SERVER_CERTIFICATE_VALIDATION_FAILURE	3-Error	RADSEC server certificate validation failed with server [chars]	RADSEC server certificate validation failed	ewlc-qos	LOG_STD_ACTION
RADSEC-3-AUDIT_MESSAGE_RADSEC_AUDIT_DTLS_RADSEC_SERVER_IDENTITY_CHECK_FAILURE	3-Error	RADSEC server identity check failed with server [chars]	RADSEC server identity Check failed	ewlc-qos	LOG_STD_ACTION
RADSEC-3-AUDIT_MESSAGE_RADSEC_AUDIT_TLS_TLS_EXT2_TLS_SESSION_ESTABLISHED_FAILURE	3-Error	User ID: [chars] Failure to establish a TLS session with RadSec server, reason: [chars]	Failure to establish a TLS session with RadSec server	ewlc-qos	LOG_STD_ACTION
RADSEC-6-AUDIT_MESSAGE_RADSEC_AUDIT_DTLS_DTLS_CIPHER_NEGOTIATED_CIPHER	6-Information	Negotiated Cipher is [chars]	Negotiated Cipher during RADSEC HS SUCCESS	ewlc-qos	LOG_STD_ACTION
RADSEC-6-AUDIT_MESSAGE_RADSEC_AUDIT_DTLS_DTLS_CIPHER_SESSION_CLOSED	6-Information	RADSEC DTLS connection closed with peer [chars]	RADSEC DTLS connection closed	ewlc-qos	LOG_STD_ACTION
RADSEC-6-AUDIT_MESSAGE_RADSEC_AUDIT_DTLS_DTLS_CIPHER_SESSION_ESTABLISHED	6-Information	RADSEC DTLS connection established with peer [chars]	DTLS session established message after RADSEC HS SUCCESS	ewlc-qos	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
RADSEC_AUDIT_MESSAGE-6-RADSEC_AUDIT_TLS_TLSC_TLS_SESSION_CLOSED	6-Information	RADSEC TLS connection closed with peer [chars]	RADSEC TLS connection closed	ewlc-qos	LOG_STD_ACTION
RADSEC_AUDIT_MESSAGE-6-RADSEC_AUDIT_TLS_TLSC_TLS_SESSION_ESTABLISHED	6-Information	RADSEC TLS connection established with peer [chars]	TLS session established message after RADSEC HS SUCCESS	ewlc-qos	LOG_STD_ACTION
RADSEC_AUDIT_MESSAGE-6-TLS_DEPRECATION	6-Information	NOTICE -TLS 1.0/1.1 are deprecated by IETF. Cisco will remove the support for these older TLS versions starting from IOS XE 21.3.1. Upgrade your infrastructure to use TLS 1.2/1.3 to avoid disruption.	When Radius Parse response op decode/bad packet	polaris-aaa	LOG_STD_NO_ACTION
REGISTRY-3-FASTCASE_OUT_OF_BOUNDS	3-Error	Attempt made in [chars] to register with out of bounds key	In the FASTCASE registry the key has to be smaller than the size specified when the registry was created. This message indicates that an attempt was made to register with a key which is out of bounds.	iosxe-ios-util	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
REGISTRY-3-SEQ_LIST_OVERWRITE	3-Error	Attempt to overwrite a set sequence function ([chars])	A single function can be set as a callback for a specified sequence number for a sequenced list registry. This message indicates that an attempt to set a new callback has failed because a callback function has already been set for this sequence number.	iosx-ios-utils	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
REGISTRY-3-STUB_CHK_OVERWRITE	3-Error	Attempt made to overwrite a set stub function in [chars]	A single function can be set as a callback for when a stub with check registry is invoked. This message indicates that an attempt to set a new callback has failed because a callback function has already been set.	iosxe-infra-utils	LOG_STD_ACTION
RFMGR_SYSLOG-4-DCA_CHANNEL_LIST_EMPTY	4-Warning	The DCA Channel list is empty for rf profile [chars]	DCA Channel list is empty It affects Channel Assignment to AP	ewlc-rrm	Please add channels to DCA List
RFMGR_SYSLOG-4-MULTI_BSSID_PROFILE_NOT_FOUND	4-Warning	Invalid Multi bssid profile [chars], applying default-multi-bssid-profile	Invalid multi bssid profile is applied, 802.11ax specific payloads are not pushed to AP	ewlc-rrm	Please assign a valid Multi bssid profile

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
RFMGR_SYSLOG-4-NO_REM_NON_AUTO_RF_CHAN_DCA	4-Warning	WARNING: RF Profile [chars] - Deleting channel [dec] from remove channel list, please add the channel to allowed channel list directly for adding it to DCA Used/Allowed channel list.	Deleting channel from remove channel list adds it to DCA Used/Allowed channel list, but the right way of adding a channel to DCA Used/Allowed channel list is to add the channel directly to allowed channel list by not adding it to remove channel list and then deleting.	ewlc-rrm	Please add the channel directly to allowed channel list for making it part of DCA Used/Allowed channel list
RIF_MGR_FSM-5-GW_REACHABLE	5-Notice	Gateway reachable from node [dec]	Gateway reachable from the node mentioned	ewlc-ha	No action is required
RIF_MGR_FSM-5-GW_UNREACHABLE	5-Notice	Gateway not reachable from node [dec]	Gateway not reachable from the node mentioned	ewlc-ha	No action is required
RIF_MGR_FSM-5-MAINTENANCE_MODE_OFF	5-Notice	Node : [chars] : maintenance mode OFF	Mentioned node not in maintenance mode	ewlc-ha	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
RIF_MGR_FSM-5-MAINTENANCE_MODE_ON	5-Notice	Node : [chars] : maintenance mode ON	Mentioned node is in maintenance mode	ewlc-ha	No action is required
RIF_MGR_FSM-5-RMI_GW_DECISION_DEFERRED	5-Notice	High CPU utilisation on active or standby, deferring action on gateway-down event	High CPU utilisation on active or standby, deferring action on gateway-down event	ewlc-ha	No action is required
RIF_MGR_FSM-5-RMI_LINK_DOWN	5-Notice	The RMI link is DOWN.	The redundancy mgmt intf link was down.	ewlc-ha	No action is required
RIF_MGR_FSM-5-RMI_LINK_UP	5-Notice	The RMI link is UP.	The redundany mgmt intf link came up	ewlc-ha	No action is required
RIF_MGR_FSM-5-RP_LINK_DOWN	5-Notice	Setting RP link status to DOWN	RP link status set to DOWN	ewlc-ha	No action is required
RIF_MGR_FSM-5-RP_LINK_UP	5-Notice	The RP link is UP.	The redundany port link came up	ewlc-ha	No action is required
RIF_MGR_FSM-5-SW_COMPATIBLE	5-Notice	Software Version is compatible with node [dec]	Software Version is compatible with the node mentioned	ewlc-ha	No action is required
RIF_MGR_FSM-5-SW_INCOMPATIBLE	5-Notice	Software Version is incompatible with node [dec]	Software Version is incompatible with the node mentioned	ewlc-ha	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
RLDP_INITIATE_MESSAGE-6-EWLC_RLDP_INITIATE	6-Information	RLDP initiate [chars]	General ewlc RLDP initiate startup status	iosxe-bnos-utils	LOG_STD_ACTION
RM_ERRS-2-ERR_FREE_MEM_CRITICAL	2-Critical	Insufficient free memory for service to work: [dec]	Insufficient free memory for service to handle new connection.	polaris-htx	Disable not required features.
RM_ERRS-4-ERR_INSUFFICIENT_FREE_MEM	4-Warning	Insufficient free memory [dec]	Free memory is lesser than configured for service.	polaris-htx	Disable not required features.
RM_ERRS-6-ERR_RECOVERED_FREE_MEM	6-Information	Recovered, sufficient free memory available [dec]	Required free memory is available now for the service.	polaris-htx	No action is requried
ROGUE_SYSLOG-6-ADHOC_AUTOCONTAIN	6-Information	Adhoc rogue AP with MAC address [chars] has been automatically contained as per WPS policies.	Adhoc Rogue has been automatically contained	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-ADHOC_AUTOCONTAIN_CLEAR	6-Information	Auto-containment for adhoc rogue AP with MAC address [chars] has been stopped.	Adhoc Rogue auto-containment has been stopped	ewlc-wips	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
ROGUE_SYSLOG-6-AP_AUTOCONTAINED	6-Information	Rogue AP with MAC address [chars] has been automatically contained as per WPS policies	Rogue AP has been auto-contained	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-AP_AUTOCONTAINED_CLEARED	6-Information	Automatic containment for rogue AP with MAC address [chars] has been cleared.	Rogue AP autocontainment has been stopped	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-AP_BEING_CONTAINED	6-Information	Managed AP [chars] with radio MAC [chars] slot [dec] is contained by another AP.	A managed AP is contained by another AP	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-AP_BEING_CONTAINED_CLEAR	6-Information	Managed AP [chars] with radio MAC [chars] slot [dec] is no longer contained by another AP.	A managed AP is no longer contained by another AP	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-AP_CONTAINED_BY_RULE	6-Information	Rogue AP with MAC address [chars] has been contained due to rule [chars] with containment level [dec]	Rogue AP has been contained due to a rule match	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-AP_HONEYPOT	6-Information	Potential Honeypot AP detected with Rogue AP MAC [chars] with SSID [chars] by AP with Radio MAC [chars], slot [dec].	Potential Honeypot AP detected	ewlc-wips	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
ROGUE_SYSLOG-6-AP_HONEYPOT_CLEAR	6-Information	Potential Honeypot AP MAC address [chars] is cleared. This Rogue AP is no longer advertising an SSID that is configured on this controller.	Potential Honeypot AP cleared	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-AP_IMPERSONATION	6-Information	Impersonation of AP with Radio MAC [chars] using source MAC address [chars] has been detected by AP [chars] with Radio MAC [chars], Slot [dec]	AP impersonation attack has been detected	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-MAX_NUM_ROGUE_AP	6-Information	Rogue AP count for the system has reached the maximum limit of [dec] entries.	Rogue AP maximum scale has been reached	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-MAX_NUM_ROGUE_AP_CLEAR	6-Information	Rogue AP count for the system is within the limit of [dec] entries.	Number of Rogue APs is below system limit	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-MAX_ROGUE_PER_AP	6-Information	The average number of Rogue APs per detecting AP radio has crossed the threshold of [dec] on AP [chars] with radio MAC [chars].	The average number of Rogue APs per detecting AP radio has crossed the threshold.	ewlc-wips	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
ROGUE_SYSLOG-6-MAX_ROGUE_PER_AP_CLEAR	6-Information	The average number of Rogue APs per detecting AP radio is below the threshold of [dec] on AP [chars] with radio MAC [chars].	The average number of Rogue APs per detecting AP radio is below the threshold.	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-RLDP_ASSOC_FAIL	6-Information	RLDP failed with error code [dec] while trying to associate to Rogue AP [chars] using AP [chars] with Radio MAC [chars], slot [dec].	RLDP failed while trying to associate to Rogue AP	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-ROGUE_AP_CLEARED	6-Information	Rogue AP [chars] removed from Radio MAC [chars], Slot [dec]	The Rogue AP has been removed	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-ROGUE_AP_DETECTED	6-Information	Rogue AP [chars] detected on Radio MAC [chars], Slot [dec], band [chars], Channel [dec], RSSI [dec], SNR [dec], Classification: [chars], State: [chars][chars]	A new Rogue AP has been detected	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-ROGUE_AP_ON_WIRED_NETWORK	6-Information	Rogue AP with MAC address [chars] has been detected on the wired network.	A Rogue AP has been detected on the wired network	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-ROGUE_AP_ON_WIRED_NETWORK_CLEAR	6-Information	Rogue AP with MAC address [chars] is no longer on the wired network.	Rogue AP is not anymore on the wired network	ewlc-wips	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
ROGUE_SYSLOG-6-ROGUE_CLIENT_DETECTED	6-Information	Rogue client with MAC address [chars] has been detected by [dec] APs, rogue client BSSID [chars], state [chars], last detecting AP [chars], rogue client gateway MAC [chars].	Rogue client detected	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-ROGUE_CLIENT_THRESHOLD_CLEAR	6-Information	Rogue Client [chars] removed from Rogue AP [chars], state [chars], channel [dec], detected by AP [chars], slot [dec], current channel [dec], band [chars]. Rogue client count is now below the threshold for this Rogue AP.	Number of rogue clients per Rogue AP is below the threshold	ewlc-wips	LOG_STD_NO_ACTION
ROGUE_SYSLOG-6-ROGUE_CLIENT_THRESHOLD_EXCEED	6-Information	Rogue Client count threshold exceeded for Rogue AP [chars] by client address [chars] detected by AP [chars], slot [dec], current channel [dec], band [chars], state [chars], rogue AP channel [dec].	Number of rogue clients per Rogue AP threshold has been exceeded	ewlc-wips	LOG_STD_NO_ACTION
ROMMON-5-CPLD_UPGRADE_STATUS	5-Notice	CPLD upgrade: [chars], install-id: [chars], message: [chars]	This syslog provides the result of the CPLD upgrade	code-signing-validity	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
ROMMON-5-ROMMON_UPGRADE_STATUS	5-Notice	ROMMON upgrade: [chars], install-id: [chars], message: [chars]	This syslog provides the result of the ROMMON upgrade	cdge-sw-ability	No action is required
RPHYMAN-1-RPD_EVENT_ALERT	1-Alert	[illegible]	CCAP received a RPD event report	iosxe-hostmgr	No action needed
RPHYMAN-2-CCAP_CORE_EVENT_CRITICAL	2-Critical	[illegible]	CCAP CORE criticl event report	iosxe-hostmgr	No action needed
RPHYMAN-2-RPD_EVENT_CRITICAL	2-Critical	[illegible]	CCAP received a RPD event report	iosxe-hostmgr	No action needed
RPHYMAN-3-CCAP_CORE_EVENT_ERROR	3-Error	[illegible]	CCAP CORE error event report	iosxe-hostmgr	No action needed
RPHYMAN-3-GCP_ERR_RSP_CODE_WARNING	3-Error	RPD [chars] local_port_id [dec]([chars]) returned ERR RSP CODE: [chars]	RPHYMAN received GCP ERR Response from RPD	iosxe-hostmgr	check RPD states or if the on-the-fly configuration take effect
RPHYMAN-3-GCP_TX_FAIL	3-Error	RPD [chars] send [chars] failed with error ([chars])	RPHYMAN send GCP msg failed	iosxe-hostmgr	check GCP connection to see whether it's closed or throttled
RPHYMAN-3-MISMATCH_XGE_IP	3-Error	RPD [chars] configured xGE interface [dec].[dec].[dec].[dec] is mismatch with connectting xGE interface [dec].[dec].[dec].[dec]	RPD connect to a wrong DPIC xGE	iosxe-hostmgr	check the rpd configuration and topo

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
RPHYMAN-3-RPD_CAPA_PARAM_MISMATCH_ERROR	3-Error	rpd_capa check, rpd_id: [chars], config_value [dec] rpdCapa_value [dec], event: [chars].	RPD DS/US configuration mismatch with RPD capability	iosxe-hostmgr	Please pay attention to the RPD DS/US configuration
RPHYMAN-3-RPD_EVENT_EMERGENCY	3-Error	[illegible]	CCAP received a RPD event report	iosxe-hostmgr	No action needed
RPHYMAN-3-RPD_EVENT_ERROR	3-Error	[illegible]	CCAP received a RPD event report	iosxe-hostmgr	No action needed
RPHYMAN-4-CCAP_CORE_EVENT_WARNING	4-Warning	[illegible]	CCAP CORE warning event report	iosxe-hostmgr	No action needed
RPHYMAN-4-LCHA_STATUS_SUMMARY_WARNING	4-Warning	switchover from slot [dec] to slot [dec]: become active [dec], delete standby [dec], mis-protected [dec].	RPD status after linecard switchover	iosxe-hostmgr	Please check the mis-protected rpds
RPHYMAN-4-RPD_CAPA_PARAM_MISMATCH_WARNING	4-Warning	rpd_capa check, rpd_id: [chars], config_value [dec] rpdCapa_value [dec], event: [chars].	RPD DS/US configuration mismatch with RPD capability	iosxe-hostmgr	Please pay attention to the RPD DS/US configuration
RPHYMAN-4-RPD_EVENT_WARNING	4-Warning	[illegible]	CCAP received a RPD event report	iosxe-hostmgr	No action needed
RPHYMAN-4-RPD_US_BURST_VENDOR_EVENT_WARNING	4-Warning	us_share mode, rpd_id: [chars], Mapping to Upstream-Controller [dec]/0/[dec], event:[chars].	RPD us burst vendor is incosistent	iosxe-hostmgr	Please do not combine RPDs with different vendors

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
RPHYMAN-5-CCAP_CORE_EVENT_NOTICE	5-Notice	[illegible]	CCAP CORE notice event report	iosxe-hostmgr	No action needed
RPHYMAN-5-LCHA_STATUS_SUMMARY_NOTICE	5-Notice	switchover from slot [dec] to slot [dec]: become active [dec], delete standby [dec], mis-protected [dec].	RPD status after linecard switchover	iosxe-hostmgr	No action needed
RPHYMAN-5-RPD_EVENT_NOTICE	5-Notice	[illegible]	CCAP received a RPD event report	iosxe-hostmgr	No action needed
RPHYMAN-5-RPD_LCHA_EVENT_NOTICE	5-Notice	rpd_id: [chars], local_port_id: [dec], event: [chars].	RPD instance became active or was deleted due to LCHA	iosxe-hostmgr	No action needed
RPHYMAN-5-RPD_NDF_NDR_SET_OFFLINE_NOTICE	5-Notice	rpd_id: [chars], local_port_id: [dec], rpd_index: [dec], slot: [dec], peer_slot: [dec], event: [chars].	Set NDF and NDR TLVs to offline	iosxe-hostmgr	No action needed
RPHYMAN-5-RPHYMGR_FSM_NOTICE	5-Notice	RPD [chars] Core [chars] [dec]/1/[dec] change rphymgr STATE from [chars] to [chars]	The rphymgr state machine has entered to a new state	iosxe-hostmgr	No action needed

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
RPHYMAN-5-RPHYMGR_FSM_NOTICE_REASON	5-Notice	RPD [chars] Core [chars] [dec]/1/[dec] change rphymgr STATE from [chars] to [chars] due to [chars]	The rphymgr state machine has entered to a new state	iosxe-hostmgr	No action needed
RPHYMAN-6-LCHA_INFO	6-Information	rphyman_lcha_info: [chars]	this is information to better know the status of chassis	iosxe-hostmgr	Please save the information if there's issue in your chassis
RPHYMAN-6-RPD_EVENT_INFORMATIONAL	6-Information	[illegible]	CCAP received a RPD event report	iosxe-hostmgr	No action needed
RPHYMAN-7-CCAP_CORE_EVENT_DEBUG	7-Debug	[chars] [illegible]	CCAP CORE debug event report	iosxe-hostmgr	No action needed
RPHYMAN-7-RPD_EVENT_DEBUG	7-Debug	[illegible]	CCAP received a RPD event report	iosxe-hostmgr	No action needed
RPHYMAN_DB-3-DB_HOG	3-Error	Holding [chars] lock of <[chars]> for [dec] ms	The rphyman process was holding the DB lock for too long, which may block other processes.	iosxe-hostmgr	Collect the system log using CLI 'show logging'.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
RPHYMAN_DB-3-NEST_LOCK	3-Error	Nested lock: try to lock <[chars]> while holding lock <[chars]>	Nested lock detected.	iosxe-hostmgr	Collect the system log using CLI 'show logging'.
RPHYMAN_DB-3-UNEXPECTED	3-Error	Error on lock <[chars]>: [chars]	Unexpected error when manipulating DB lock.	iosxe-hostmgr	Collect the system log using CLI 'show logging'.
RPHYMAN_DB-4-DB_STARVE	4-Warning	Waiting [chars] lock of <[chars]> for [dec] ms	Current process was waiting for the DB lock for too long	iosxe-hostmgr	Collect the system log using CLI 'show logging'.
RRM_CLIENT-0-FAILEDTIMERCREATE	0-Emergency	RRM failed to create [chars] timer	Failed to create timer	ewlc-rrm	LOG_STD_ACTION
RRM_CLIENT-3-CHD_INV_RF_PROF	3-Error	Coverage message received profile from [chars]	CHD message was received for a radio which has a non existent RF Profile Configured.	ewlc-rrm	Can be seen during configuration changes,if seen otherwise LOG_STD_ACTION
RRM_CLIENT-3-EWLC_EXEC_ERR	3-Error	%% Error: AP [chars] MAC: %02x%02x%02x%02x%02x%02x Slot-id [dec] - [chars]	Improper arguments or config	ewlc-rrm	Arguments to be changed
RRM_CLIENT-3-FAILEDCOVERAGEPROFILE	3-Error	Coverage profile violation on [chars] AP %02x%02x%02x%02x%02x%02x Slot: [dec] Failed client count: [dec] Total client count: [dec]	Coverage profile violation	ewlc-rrm	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
RRM_CLIENT-3-FAILEDINTPROFILE	3-Error	Interference profile violation on [chars] AP %02x%02x%02x%02x%02x%02x Slot: [dec] Interference in percentage: [dec] On channel: [dec]	Interference profile violation	ewlc-rrm	LOG_STD_ACTION
RRM_CLIENT-3-FAILEDLOADPROFILE	3-Error	Load profile violation on [chars] AP %02x%02x%02x%02x%02x%02x Slot: [dec] Channel load in percentage: [dec] Number of stations: [dec]	Load profile violation	ewlc-rrm	LOG_STD_ACTION
RRM_CLIENT-3-FAILEDNOISEPROFILE	3-Error	Noise profile violation on [chars] AP %02x%02x%02x%02x%02x%02x Slot: [dec] Noise: [dec] dBm On channel: [dec]	Noise profile violation	ewlc-rrm	LOG_STD_ACTION
RRM_CLIENT-3-HA_CONFIG_SYNC	3-Error	RRM HA Config tables not yet synced: [chars]	Some critical RRM configuration was found to be missing, immediately after switchover.	ewlc-rrm	If the message appears persistently, RRM may not function as configured. System reboot will be required to restore RRM function

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
RRM_CLIENT-3-RRM_AP_DB_ERR	3-Error	Unable to find AP %02x%02x%02x%02x%02x%02x entry in the database, could not process [chars]	The operation being performed for the AP failed because the internal entry for the AP was not found. It is possible that the AP has been removed from the controller.	ewlc-rrm	Use the 'show ap summary' command to determine if the AP is still joined to the controller. If it is not, the message may be ignored. If it is still joined, restart the AP to ensure that it has the latest configuration and contact technical assistance if the problem recurs.
RRM_CLIENT-3-RRM_AP_INV_SLOT	3-Error	Invalid slot number [dec] for AP %02x%02x%02x%02x%02x%02x could not process [chars]	AP included wrong slot number	ewlc-rrm	LOG_STD_ACTION
RRM_CLIENT-3-RRM_AP_TBL_ERR	3-Error	Unable to find AP %02x%02x%02x%02x%02x%02x slot [dec] [chars] entry in the database, could not process [chars] event	The operation being performed for the AP failed because the measurement or coverage entry for the radio was not found. recreating the records.	ewlc-rrm	Collect the controller logs and contact technical assistance.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
RRM_CLIENT-3-RRM_CHANNEL	3-Error	RRM Channel Config Notification: Radio Role is AUTO. So, channel change is not allowed for AP [chars] on slot [dec].	Channel configuration is not allowed.	ewlc-rrm	LOG_STD_NO_ACTION
RRM_CLIENT-3-RRM_CONFIG	3-Error	RRM Config Notification: [chars]	Some critical RRM configuration still not populated.	ewlc-rrm	If the message appears persistently, for more than 8 times for each phy type, RRM may not function as configured. System reboot will be required to restore RRM function
RRM_CLIENT-5-PASSEDCOVERAGEPROFILE	5-Notice	Coverage profile recovery on [chars] AP %02x%02x%02x%02x%02x%02x Slot: [dec]	Coverage profile recovery	ewlc-rrm	LOG_STD_NO_ACTION
RRM_CLIENT-5-PASSEDINTPROFILE	5-Notice	Interference profile recovery on [chars] AP %02x%02x%02x%02x%02x%02x Slot: [dec]	Interference profile recovery	ewlc-rrm	LOG_STD_NO_ACTION
RRM_CLIENT-5-PASSEDNOISEPROFILE	5-Notice	Noise profile recovery on [chars] AP %02x%02x%02x%02x%02x%02x Slot: [dec]	Noise profile recovery	ewlc-rrm	LOG_STD_NO_ACTION
RRM_CLIENT-5-RRM_CAC_IN_PROG	5-Notice	AP [chars] slot [dec] [chars] is deferred, till pre-CAC is complete	Setting channel/channel width/channel mode are deferred until pre-CAC is done.	ewlc-rrm	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
RRM_CLIENT-5-RRM_NON_PSC_CHANNEL	5-Notice	RRM Channel Config Notification: Non-PSC channel [dec] is configured for 6 GHz radio on slot [dec], Clients might fail to connect.	When non PSC channel is used for 6GHz radio, it is possible that 6GHz clients may not be able to join the AP.	ewlc-rrm	LOG_STD_NO_ACTION
RRM_CLIENT-6-MODE_SWITCH_LPI_TO_SP	6-Information	6GHZ Power mode switch from LPI to SP AP %02x%02x%02x%02x%02x%02x Slot: [dec] Channel: [dec] Channel Width: [dec]	6GHZ Power mode switch from LPI to SP	ewlc-afc-rrm	LOG_STD_NO_ACTION
RRM_CLIENT-6-MODE_SWITCH_SP_TO_LPI	6-Information	6GHZ Power mode switch from SP to LPI AP %02x%02x%02x%02x%02x%02x Slot: [dec] Channel: [dec] Channel Width: [dec]	6GHZ Power mode switch from SP to LPI	ewlc-afc-rrm	LOG_STD_NO_ACTION
RRM_CLIENT-6-PASSEDLOADPROFILE	6-Information	Load profile recovery on [chars] AP %02x%02x%02x%02x%02x%02x Slot: [dec]	Load profile recovery	ewlc-rrm	LOG_STD_NO_ACTION
RRM_COMMON_TRACE_MESSAGE-3-RRM_COMMON_INVALID_SLOT	3-Error	Error encountered: [chars]	Invalid slot identifier is found while processing RRM packet	ewlc-rrm	Please report the error to technical support representative

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
RRM_MGR_DB-5-DUPLICATE_IP_WLC	5-Notice	WLC: [chars] having duplicate IP: [dec].[dec].[dec].[dec] detected while processing RRM pkt. IP address of the conflicting WLC: [chars] should be changed immediately to avoid impact on RRM functionality	Another WLC in the rf-network is having duplicate IP, it will impact RRM functionality for the conflicting controllers	ewlc-rrm	IP address of the conflicting controller should be changed immediately
RRM_MGR_TRACE_MESSAGE-0-FAILEDTIMERCREATE	0-Emergency	RRM failed to create [chars] timer	Failed to create timer	ewlc-rrm	LOG_STD_ACTION
RRM_MGR_TRACE_MESSAGE-3-EWLC_EXEC_ERR	3-Error	%% Error: [chars]	Improper arguments or config	ewlc-rrm	Arguments to be changed
RRM_MGR_TRACE_MESSAGE-3-EWLC_GEN_ERR	3-Error	Error in [chars]	General ewlc Error Message.	iosxe-bmcs-utils	LOG_STD_ACTION
RRM_MGR_TRACE_MESSAGE-3-HA_CONFIG_SYNC	3-Error	RRM HA Config tables not yet synced: [chars]	Some critical RRM configuration was found to be missing, immediately after switchover.	ewlc-rrm	If the message appears persistently, RRM may not function as configured. System reboot will be required to restore RRM function
RRM_MGR_TRACE_MESSAGE-3-REG_IP_CHG_NOTIFY_FAIL	3-Error	Unable to register with platform to get Management IP Address Change Notification - error [dec].	Unable to register with platform to get Management Interface IP Address Change Notification.	ewlc-rrm	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
RRM_MGR_TRACE_MESSAGE-3-REG_RX_PKT_FAIL	3-Error	Unable to register with platform to receive packets - error [dec]	Unable to register with platform to receive packets	ewlc-rrm	LOG_STD_ACTION
RRM_MGR_TRACE_MESSAGE-3-RRM_IPC_EP_ERR	3-Error	IPC Failure: [chars]	Failed to find IPC endpoint for AP	ewlc-rrm	If the message appears persistently, RRM will not function as expected. AP should be disconnected to restore RRM function
RRM_MGR_TRACE_MESSAGE-5-RRM_DUPLICATE_IP_WLC	5-Notice	WLC: [chars] having duplicate IP: [chars] detected while processing RRM Hello pkt. IP address of the conflicting WLC: [chars] should be changed immediately to avoid impact on RRM functionality	Another WLC in the rf-network is having duplicate IP, it will impact RRM functionality for the conflicting controllers	ewlc-rrm	IP address of the conflicting controller should be changed immediately
RRM_UTIL-4-INVALIDCHANNELCONFIG	4-Warning	Warning: Update of the channel list caused invalid pair in DCA list for [chars] band	Invalid channel configuration	ewlc-rrm	LOG_STD_NO_ACTION
RRM_UTIL-6-SETCHANNEL	6-Information	Set channel on cell %02x%02x%02x%02x%02x%02x [dec] to [chars] chanwidth [dec] to reduce co-channel interference from [dec] to [dec] Reason [chars]	Set channel to reduce co-channel interference	ewlc-rrm	LOG_STD_NO_ACTION
RRM_UTIL-6-SETCHANNELWIDTH	6-Information	Set channel width on 802.11a for AP %02x%02x%02x%02x%02x%02x failed 160MHz channel width supported only for 4x4 antenna mode	Channel width configuration change	ewlc-rrm	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
RRM_UTIL-6-SETCHANNEL_DUALBAND	6-Information	Set channel [chars] for AP %02x%02x%02x%02x%02x%02x on dual band radio slot: [dec] due to [chars]	Set channel because of Dualband Radio Role/band change	ewlc-rrm	LOG_STD_NO_ACTION
RRM_UTIL-6-SETCHANNEL_ED	6-Information	Set channel on cell %02x%02x%02x%02x%02x%02x [dec] to [chars] due to Air Quality voilation reason [chars]	Set channel because of Air Quality Violation	ewlc-rrm	Investigate the cause of bad air quality on the channel and eliminate if possible
RRM_UTIL-6-SETCHANNEL_NONOPTIMAL	6-Information	Set non-optimal channel on cell %02x%02x%02x%02x%02x%02x [dec] to [chars] because of lack of information	Set channel on user input (non-optimal)	ewlc-rrm	LOG_STD_NO_ACTION
RRM_UTIL-6-SETTXPOWER	6-Information	Tx power changed from [dec] to [dec] for AP %02x%02x%02x%02x%02x%02x slot [dec] band [chars] due to [chars]	Set transmit power	ewlc-rrm	LOG_STD_NO_ACTION
RRM_UTIL-6-UPDATECHANNEL	6-Information	Set channel on [chars] AP %02x%02x%02x%02x%02x%02x [dec] to [chars] by configuration change due to [chars]	Channel configuration change	ewlc-rrm	LOG_STD_NO_ACTION
RRM_UTIL-6-UPDATETXPOWER	6-Information	Tx power changed from [dec] to [dec] for AP %02x%02x%02x%02x%02x%02x slot [dec] band [chars] due to [chars]	Transmit power configuration change	ewlc-rrm	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
RULE_ENGINE-3-EWLC_GEN_ERR	3-Error	Error in [chars]	General Wireless LAN Controller Error Message.	iosxe-infra-rte-binos-utils	LOG_STD_ACTION
RULE_ENGINE-3-EWLC_RULE_ENGINE_REGEX_CREATE_ERR	3-Error	Error in [chars]	Rule regular expression error	iosxe-infra-rte-binos-utils	Recreate regular expression correctly
RULE_ENGINE-4-EWLC_RULE_ENGINE_PRIORITY_UPDATE_WARN	4-Warning	Warning: [chars]	rule_engine priorities are overridden, old rule_engine will be invalid	iosxe-infra-rte-binos-utils	LOG_STD_ACTION
SCOOBY-0-SERIAL_BRIDGE_CRITICAL_ERROR	0-Emergency	Reloading [chars] due critical event %#x in block [chars]/[dec] of serial bridge [dec]	A critical serial bridge I/O event has occurred.	ios-linux-infra-intf	The system automatically reloads the hardware component experiencing the error. If the problem persists, copy the message exactly as it appears on the console or in the system log, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
SCOOBY-0-SERIAL_BRIDGE_CRITICAL_ERROR_RATE	0-Emergency	Reloading [chars] due to critically high serial bridge error rate.	A Serial Bridge has experienced a persistently high error rate. The condition is serious and the card must be reloaded. This could be due to a hardware or software driver defect.	ark-infra-intrl	Copy the message exactly as it appears on the console or in the system log, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.
SCOOBY-0-SERIAL_BRIDGE_DRIVER_ERROR	0-Emergency	Kernel Module failed in [chars]	A Serial Bridge has experienced a Init failure. The condition is serious and the card must be reloaded. This could be due to a hardware or software driver defect.	ark-infra-intrl	Copy the message exactly as it appears on the console or in the system log, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SCOOBY-2-FPGA_VERSION_CHECK_ERR	2-Critical	LEDA FPGA version does not meet minimum required version. [chars]	LEDA FPGA minimum version requirement not met.	asr1k-ether-lc	Copy the message exactly as it appears on the console or in the system log, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.
SCOOBY-5-SERIAL_BRIDGE_BLOCK_EVENT	5-Notice	Block [chars]/[dec] of serial bridge [dec] had I/O event %#x	A serial bridge I/O event has occurred. This event is not serious but is logged for diagnostic purposes.	asr1k-infra-intl	No user action is required.
SCOOBY-5-SERIAL_BRIDGE_EVENT_RATE	5-Notice	The [chars] event rate of [dec] has exceeded the threshold of [dec] on serial bridge [dec] interconnect [dec]	A Serial Bridge has experienced a high event rate. This condition is not considered serious, but is logged for diagnostic purposes. This could be due to a hardware or software driver defect.	asr1k-infra-intl	No user action is required. If this message persists, a serial bridge critical message that needs to be addressed will appear.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SDWAN_BOOTSTRAP-2-ROLLBACK_PREVIOUS	2-Critical	Rolling back to previous image	This critical syslog is generated when the device rolls back to previous image because of config which is incompatible in new version	edge-config-bootstrap	This syslog is typically accompanied by another log which will describe the problem. Please fix unsupported config before retrying upgrade
SDWAN_BOOTSTRAP-3-BOOTSTRAP_CFG_LOAD_FAILURE	3-Error	Loading [chars] bootstrap failed, reason: [chars]	This error syslog is generated when loading of initial config from bootstrap file fails. Device will come up with day-0 config	edge-config-bootstrap	Inspect the bootstrap file for any XML error or uuid mismatch

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SDWAN_BOOTSTRAP-3-CONFD_EXITED	3-Error	ConfD (PID: [dec]) exited with code: [dec], system will reboot now	This error syslog is generated when ConfD process exits/ dies. ConfD is a critical daemon in SD-WAN and if it fails to come up, SD-WAN system cannot function. System goes for a reboot when ConfD exits	cdb config	Please consult with Cisco TAC about this failure. Although we have mechanisms in place to recover from ConfD failure, Cisco would like to gather information about this failure from customers
SDWAN_BOOTSTRAP-3-CONFIG_RESTORE_FAILURE	3-Error	Failed to restore last saved config snapshot, device will come up with day-0 config	This error syslog is generated when the last saved config snapshot cannot be restored	cdb config	Please open a ticket with Cisco TAC when this error syslog is observed for analyzing the issue

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SDWAN_BOOTSTRAP-4-CDB_CORRUPTED	4-Warning	CDB corruption detected, will try to recover config from last saved snapshot	This warning syslog is generated when IOS-XE software detects corruption of config database (CDB). CDB is persisted on hard disk and can get corrupted	cdb_config_setup	IOS-XE software will try to restore config from config snapshot. If the last snapshot is not recovered, please create a ticket with Cisco TAC
SDWAN_BOOTSTRAP-4-NO_CONFIG_BACKUP	4-Warning	No config backup found, device will come up with day-0 config	This warning syslog is generated when config backup is not found during config recovery (typically triggered due to CDB corruption or some file missing)	cdb_config_setup	Please open a ticket with Cisco TAC when this syslog is observerd. IOS-XE software takes a snapshot of config every time control connectivity with SD-WAN Manager is established and config backup is expected to be present

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
SDWAN_BOOTSTRAP-5-BOOTSTRAP_CFG_LOAD_SUCCESS	5-Notice	Successfully extracted and committed config from [chars]	This notice syslog is generated when initial config is successfully extraced and loaded from bootstrap file	cdge-config-mgmt	No action is needed
SDWAN_BOOTSTRAP-5-CONFIG_RESTORE_IN_PROGRESS	5-Notice	Config restoration in progress. Will try to load last backed up config file as bootstrap	This notice syslog is generated when IOS-XE software detects that config has to be restored from previous snapshot. This typically happens if CDB gets corrupted or config related file goes missing	cdge-config-mgmt	No action is needed

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SDWAN_BOOTSTRAP-5-CONFIG_RESTORE_SUCCESS	5-Notice	Last saved config restored successfully	This notice syslog is generated when last saved config is restored successfully. Please note that this might not be the latest config	edge-config-startup	No action is needed
SDWAN_BOOTSTRAP-5-CONFIG_UPGRADE	5-Notice	Device upgraded with new software, config will be upgraded/migrated	This log is generated when config is migrated as a result of software upgrade	edge-config-startup	No action is required
SDWAN_BOOTSTRAP-5-DAY0_BRINGUP	5-Notice	Device coming up with day-0 config	This log is generated when device comes up with day-0 config	edge-config-startup	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SDWAN_BOOTSTRAP-5-OBSOLETE_CONFIG_REMOVED	5-Notice	Obsoleted xpath [chars] removed	This notice syslog is generated during upgrade when IOS-XE device detects obsolete config and removes it from config database	cdge-confd-startup	No action is needed
SDWAN_BOOTSTRAP-5-PROGRESS	5-Notice	Status: [chars]	This notice syslog is generated to indicate current status of bootsrap process	cdge-confd-startup	No action is required
SDWAN_BOOTSTRAP-5-SYSTEM_READY	5-Notice	All daemons up	This notice syslog is generated to indicate bootstrap procedure is completed	cdge-confd-startup	No action is required
SDWAN_IPSEC-5-PWK_SETTING	5-Notice	New pairwise key setting will take effect only after reboot!	This syslog is generated when security pairwise keying configuration is changed	cdge-cryto-sc	New pairwise key setting will take effect only after reboot

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SDWAN_STATSMGR-3-ZIP_FAILURE	3-Error	[[chars]] Failed to compress file [chars], reason: [chars]	This notice syslog is generated when statistics file cannot be compressed because of an error	sdwan-infra	Please contact Cisco TAC regarding this issue. Compression of stats file should always succeed
SDWAN_STATSMGR-5-STATS_DISABLED	5-Notice	Table [chars] is disabled on SD-WAN Manager	This notice syslog is generated when a table has been disabled on SD-WAN Manage	sdwan-infra	No action is needed
SDWAN_STATSMGR-5-STATS_EVICTED	5-Notice	Stats file [chars] containing [dec] records is evicted	This notice syslog is generated when a stats file has been evicted from disk	sdwan-infra	No action is needed
SDWAN_STATSMGR-5-ZIP_TIME_EXCEEDED	5-Notice	[chars] compressed ([chars] -> [chars]) in [chars]	This notice syslog is generated when zipping a file takes more than 5 seconds	sdwan-infra	No action is needed

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SD_ROUTING_BOOTSTRAP-3-BOOTSTRAP_CFG_LOAD_FAILURE	3-Error	Loading [chars] bootstrap failed, reason: [chars]	This error syslog is generated when loading of initial config from bootstrap file fails. Device will come up with day-0 config	cntrl-mng-rtg	Inspect the bootstrap file for any XML error or uuid mismatch
SD_ROUTING_BOOTSTRAP-3-CONFD_EXITED	3-Error	ConfD (PID: [dec]) exited with code: [dec]	This error syslog is generated when ConfD process exits/ dies. Confd is a restartable daemon. SD-Routing server will restart when ConfD exits	cntrl-mng-rtg	Please consult with Cisco TAC about this failure. Although we have mechanisms in place to recover from ConfD failure, Cisco would like to gather information about this failure from customers
SD_ROUTING_BOOTSTRAP-5-BOOTSTRAP_CFG_LOAD_SUCCESS	5-Notice	Successfully extracted and committed config from [chars]	This notice syslog is generated when initial config is successfully extraced and loaded from bootstrap file	cntrl-mng-rtg	No action is needed

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SD_ROUTING_BOOTSTRAP-5-PROGRESS	5-Notice	Status: [chars]	This notice syslog is generated to indicate current status of bootsrap process	cntrl-mng-rtg	No action is required
SD_ROUTING_BOOTSTRAP-5-SYSTEM_READY	5-Notice	All daemons up	This notice syslog is generated to indicate bootstrap procedure is completed	cntrl-mng-rtg	No action is required
SD_ROUTING_STATSMGR-3-ZIP_FAILURE	3-Error	[[chars]] Failed to compress file [chars], reason: [chars]	This notice syslog is generated when statistics file cannot be compressed because of an error	statsmgr-rtr-v2	Please contact Cisco TAC regarding this issue. Compression of stats file should always succeed
SD_ROUTING_STATSMGR-5-STATS_DISABLED	5-Notice	Table [chars] is disabled on SD-WAN Manager	This notice syslog is generated when a table has been disabled on SD-WAN Manage	statsmgr-rtr-v2	No action is needed

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
SD_ROUTING_STATSMGR-5-STATS_EVICTED	5-Notice	Stats file [chars] containing [dec] records is evicted	This notice syslog is generated when a stats file has been evicted from disk	sw-stats-infra	No action is needed
SD_ROUTING_STATSMGR-5-ZIP_TIME_EXCEEDED	5-Notice	[chars] compressed ([chars] -> [chars]) in [chars]	This notice syslog is generated when zipping a file takes more than 5 seconds	sw-stats-infra	No action is needed
SERDES-3-SERDES_CRITICAL_ERROR	3-Error	Critial error [chars] in FRU [chars] when [chars]	A critical error was occurred. The condition is serious and the card must be reloaded. This could be due to bad or unknown hardware (chassis or modules). Chassis Manager could also initialize the Serdes library with incorrect input parameters.	ar-linux-kernel	Copy the message exactly as it appears on the console or in the system log. Collect the output of show platform, show verson, show log, sh diag chassis eeprom detail, show diagnostic slot <slot#> eeprom detail, and any other relevant logs. Contact your Cisco technical support representative.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
SERDES-5-SERDES_NOTICE	5-Notice	from FRU [chars], [chars].	CMAN sends a significant Serdes event to IOSD to log it	ark-infra-intl	No action is required for this notice.
SERVICES-0-INVALID_OWNERSHIP	0-Emergency	Error using service handle %p - invalid ownership (%p, %p)	A multi-thread application is trying to incorrectly use the services library. Applications must follow thread confinement strategy with the services library. Each thread of the application must initialize private managed context of the service library.	iosxe-binos-utils	Copy the error message, tracebacks and version information and contact a Cisco representative.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SERVICES-2-NOINIT	2-Critical	Error initializing services: [chars]	An application failed to initialize the core services library. The application will not be able to communicate with other modules on the system.	iosxe-binos-utils	LOG_STD_RECUR_ACTION
SERVICES-2-NORESOLVE_ACTIVE	2-Critical	Error resolving active FRU: [chars]	An application was not able to determine the active FRU. The application was likely started incorrectly.	iosxe-binos-utils	LOG_STD_RECUR_ACTION
SERVICES-2-NORESOLVE_LOCAL	2-Critical	Error resolving local FRU: [chars]	An application was not able to determine its local FRU. The application was likely started incorrectly.	iosxe-binos-utils	LOG_STD_RECUR_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
SERVICES-2-NORESOLVE_STANDBY	2-Critical	Error resolving standby FRU: [chars]	An application was not able to determine the standby FRU. The application was likely started incorrectly.	iosxe-bmcs-utils	LOG_STD_RECUR_ACTION
SERVICES-3-INVALID_CHASFS	3-Error	Thread %p has no global chasfs context	A multi-thread application is trying to incorrectly use the services library. Applications must follow thread confinement strategy with the services library. Each thread of the application must initialize private managed context of the service library.	iosxe-bmcs-utils	Copy the error message, tracebacks and version information and contact a Cisco representative.
SESSION_MGR-0-CONFIG_CORRUPT	0-Emergency	Checksummed interface configuration corruption detected.	Interface configuration field was modified unexpectedly.	polaris-smd	No action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SESSION_MGR-4-ILLEGAL_TRACE_REQ	4-Warning	Component ID [dec] not registered.	Component ID %d not registered.	polaris-smd	No action is required.
SESSION_MGR-4-TERMINATE	4-Warning	Authentication session terminated for client ([chars]) on Interface [chars] AuditSessionID [chars] Reason [chars]	Session is being terminated.	polaris-smd	No action is required.
SESSION_MGR-4-UNAUTH_MOVE	4-Warning	[chars] MAC address ([chars]) from [chars] to [chars]	Move while not authenticated on old IDB	polaris-smd	No action is required.
SESSION_MGR-5-FAIL	5-Notice	Authorization failed or unapplied for client ([chars]) on Interface [chars] AuditSessionID [chars]. [chars] [chars]	Authorization was unsuccessful.	polaris-smd	Authorization was unsuccessful for the client. Collect the smd logs and system console logs
SESSION_MGR-5-MACMOVE	5-Notice	MAC address ([chars]) moved from Interface [chars] to Interface [chars] AuditSessionID [chars]	Client has moved to a new interface without logging off on the previous one.	polaris-smd	No action is required.
SESSION_MGR-5-MACMOVE_THRESHOLD	5-Notice	MAC address ([chars]) has exceeded the mac-move threshold value [dec] while moving from Interface [chars] to Interface [chars]	Client has moved to a new interface and mac move count has exceeded the configured threshold.	polaris-smd	No action is required.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SESSION_MGR-5-MACREPLACE	5-Notice	MAC address ([chars]) on Interface [chars] is replaced by MAC ([chars]) AuditSessionID [chars]	A new client has triggered a violation causing an existing client to be replaced	polaris-smd	No action is required.
SESSION_MGR-5-SECURITY_VIOLATION	5-Notice	Security violation on the interface [chars], new MAC address ([chars]) is seen. AuditSessionID [chars]	A host on the specified interface is attempting to gain access into the network or is trying to authenticate in a host mode that does not support the number of hosts attached. This is treated as a security violation and the port has been error-disabled.	polaris-smd	Ensure that the port is configured to support the host count attached. Enter the <cmdbold>shutdown</cmdbold> command followed by <cmdbold>no shutdown</cmdbold> command to restart the port.
SESSION_MGR-5-START	5-Notice	Starting '[chars]' for client ([chars]) on Interface [chars] AuditSessionID [chars]	Starting an authentication method	polaris-smd	Message notification informing about the session manager client is being started to authenticate the endpoint attached to the interface

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SESSION_MGR-5-SUCCESS	5-Notice	Authorization succeeded for client ([chars]) on Interface [chars] AuditSessionID [chars]	Authorization was successful.	polaris-smd	Client connected to the switch has been successfully authorized by the session manager framework
SESSION_MGR-5-VLANASSIGN	5-Notice	VLAN [dec] assigned to Interface [chars] AuditSessionID [chars]	VLAN assignment to an interface for the session	polaris-smd	No action is required.
SESSION_MGR-7-NOMOREMETHODS	7-Debug	Exhausted all authentication methods for client ([chars]) on Interface [chars] AuditSessionID [chars]	All available authentication methods have been tried	polaris-smd	No action is required.
SESSION_MGR-7-STOPPING	7-Debug	Stopping [chars] for client [chars] on Interface [chars] AuditSessionID [chars]	Stopping the current authentication method	polaris-smd	No action is required.
SHFWD-6-PACKET_TRACE_DONE	6-Information	Packet Trace Complete: [chars]	Packet trace cmd initiated by admin is complete	platform_mgr	No action is required
SHFWD-6-PACKET_TRACE_FAIL	6-Information	Show fwd is failed at [chars]	Packet trace cmd initiated by admin is fail	platform_mgr	Collect the trace from all the switch using the cli (show platform software trace fed switch <>)
SHFWD-6-PACKET_TRACE_FLOW_ID	6-Information	Packet Trace Flow id is [dec]	Packet trace instance can be tracked by flowid	platform_mgr	No action is required

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
SIF_MGR-1-FAULTY_CABLE	1-Alert	High hardware interrupt seen on switch [dec]\n	The specified stack cable is experiencing high hardware interrupts	iosxe-fwdmgr	Replace the stack cable connected to the stack port.
SIF_MGR-1-FAULTY_STACK_CABLE	1-Alert	High hardware interrupt seen on switch [dec] on stack port [dec]\n	The specified stack cable is experiencing high hardware interrupts	iosxe-fwdmgr	Replace the stack cable connected to the stack port.
SIF_MGR-6-STACK_ADAPTER_INSERTED	6-Information	stack_mgr: Stack adapter [dec] on switch [dec] is inserted	The specific adapter has been inserted from the mentioned switch.	iosxe-fwdmgr	No action is required
SIF_MGR-6-STACK_ADAPTER_REMOVED	6-Information	stack_mgr: Stack adapter [dec] on switch [dec] is removed	The specific adapter has been removed from the mentioned switch.	iosxe-fwdmgr	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SIG-2-SIG_TUNNEL_EVENT_FAILURE	2-Critical	Cisco Umbrella SIG tunnel: [chars] event failure, [chars]	This syslog is generated when a IPSEC tunnel to Cisco Umbrella Secure Internet Gateway runs into failure(s) during state transition	cedge-sig	No action is required
SIG-2-TUNNEL_TRACKER_STATUS_DOWN	2-Critical	Tracker associated with SIG tunnel [chars] is [chars]	This syslog is generated when tracker(s) associated with SIG tunnel goes DOWN	cedge-sig	No action is required
SIG-2-ZIA_LOCATION_EVENT_FAILURE	2-Critical	Zscaler location: [chars] event failure, [chars] (additional info: [chars])	This syslog is generated when various REST API(s) to setup ZIA encounter errors	cedge-sig	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SIG-2-ZIA_TUNNEL_EVENT_FAILURE	2-Critical	Zscaler SIG tunnel: [chars] event failure, [chars] (additional info: [chars])	This syslog is generated when a IPSEC/GRE tunnel to Zscaler Secure Internet Gateway runs into failure(s) during state transition	cedge-sig	No action is required
SIG-5-SIG_TUNNEL_EVENT_SUCCESS	5-Notice	Cisco Umbrella SIG tunnel: [chars] event success, [chars]	This syslog is generated when a IPSEC tunnel to Cisco Umbrella Secure Internet Gateway transitions to different states successfully	cedge-sig	No action is required
SIG-5-TUNNEL_TRACKER_STATUS_UP	5-Notice	Tracker associated with SIG tunnel [chars] is [chars]	This syslog is generated when tracker(s) associated with SIG tunnel comes UP	cedge-sig	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SIG-5-ZIA_LOCATION_EVENT_SUCCESS	5-Notice	Zscaler location: [chars] event success, [chars]	This syslog is generated when various REST API(s) to setup ZIA location succeed	cedge-sig	No action is required
SIG-5-ZIA_TUNNEL_EVENT_SUCCESS	5-Notice	Zscaler SIG tunnel: [chars] event success, [chars]	This syslog is generated when a IPSEC/GRE tunnel to Zscaler Secure Internet Gateway transitions through different states successfully	cedge-sig	No action is required
SIMULATION_ERRMSG-3-rw_err	3-Error	Cosim simualation failed to [chars] %zu bytes. ret: [chars]	An error occurred during cosim rw operation.	INVALID	Check if Cima memory io socket is over subscribbed.
SISF_LOG-3-SISF_TRACEBACK	3-Error	Error in [chars]	General SISF Error Message.	ewlc-sisf	LOG_STD_ACTION
SM-2-INITIALIZATION_FAILED	2-Critical	Session Manager initialization for [chars] failed.	Initialization of session manager process failed.	polaris-infra	Review SM logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log.

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
SMAN-2-NO_MEMORY	2-Critical	Cannot allocate memory for an internal data structure	An out of memory condition occurred when attempting to create an internal data structure. The daemon encountering the problem will exit, after which the process manager will restart.	iosxe-shelfmgr	Check the log files for the associated daemon. Monitor processes for excessive memory consumption.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SMAN-2-TDL_MESSAGE	2-Critical	Cannot construct an IPC message for library. The message name is [chars] and the reason is: [chars]	A problem occurred while constructing a type definition language (TDL) message or setting a field in a TDL message. If the problem occurred during construction of a TDL message, the system is out of memory. If the problem occurred while setting a field in the TDL message, there is a library mismatch issue.	ios-shelfmgr	Check [uipeer] ERR entries in the log files for message reporting problems.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SMAN-3-CRDU_PATCH_REPLY_TIMEOUT	3-Error	Failed to receive patch response from peer process [chars]	During patch operation the Shell Manager broadcasts a request to all affected processes (peers). If a peer does not respond in time then the patch process cannot be completed correctly	polaris-crdu	Check that the process(es) that failed to respond are still active and check their trace files for any potential errors that could prevent them from responding to a patch request in a timely manner
SMAN-3-CRFT_CLEARCOUNTERS_REQUEST_FAIL	3-Error	CRFT clear counters request finished with one or more failures. Check tracelogs for further details.	After a request to clear CRFT counters if any program reports an error or fails to respond within the timeout period this message will be emitted.	polaris-crft	Inspect btrace logs for information about which programs failed and why

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SMAN-3-CRFT_COLLECT_REQUEST_FAIL	3-Error	CRFT collection request finished with one or more failures. Check tracelogs for further details.	After a request to collect CRFT data if any program reports an error or fails to respond within the timeout period this message will be emitted.	polaris-crft	Inspect btrace logs for information about which programs failed and why
SMAN-3-CRFT_EXPORT_REQUEST_FAIL	3-Error	CRFT export request finished with one or more failures. Check tracelogs for further details.	After a request to export CRFT data if an error or failure during the export stage occurs this message will be emitted.	polaris-crft	Inspect btrace logs for information about which operation failed and why

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
SMAN-3-CRFT_RELOAD_REQUEST_FAIL	3-Error	CRFT reload request capture finished with one or more failures. Check tracelogs for further details.	After a request to capture CRFT data on reload if an error or failure during the reload stage occurs this message will be emitted.	polaris-crft	Inspect btrace logs for information about which operation failed and why
SMAN-3-CRFT_UNSUPPORTED_REMOTE_PATH_FAIL	3-Error	CRFT remote requested using an unsupported remote path. Check tracelogs for further details.	After a request to remotely capture CRFT data an error or failure during the remote stage occurs this message will be emitted.	polaris-crft	Inspect btrace logs for information about which operation failed and why

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SMAN-3-CRFT_UNSUPPORTED_REMOTE_SCHEME_FAIL	3-Error	CRFT remote requested using an unsupported scheme. Check tracelogs for further details.	After a request to remotely capture CRFT data an error or failure during the remote archive stage occurs this message will be emitted.	polaris-crft	Inspect btrace logs for information about which operation failed and why
SMAN-3-CRFT_UNSUPPORTED_REMOTE_TAG_FAIL	3-Error	CRFT remote requested using an unsupported tag format. Check tracelogs for further details.	After a request to remotely capture CRFT data an error or failure during the remote archive stage occurs this message will be emitted.	polaris-crft	Inspect btrace logs for information about which operation failed and why

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SMAN-3-HOSTINFO_MONITOR_FAILURE	3-Error	Error initializing host info monitoring: [chars]	During initialization, the Shell Manager monitors changes to host-related information, such as the hostname. This error occurs if initialization fails.	iosxe-shellmgr	Check the Shell Manager trace file for related details.
SMAN-3-HOSTINFO_READ_FAILURE	3-Error	Error reading host info ([chars]): [chars]	During process startup and when changes occur, the Shell Manager reads host-related information, such as the hostname. This error occurs if there is a failure reading information.	iosxe-shellmgr	Check the Shell Manager trace file for related details.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
SMAN-3-INVALID_EPOCH_FILE	3-Error	An upgrade or installation has produced an invalid messaging configuration file [chars], [chars]	During an upgrade or installation of a new package, an invalid messaging configuration file was produced. The file is either empty or has invalid permissions and cannot be read.	iosxe-shellmgr	Repeat the installation or upgrade. If the problem persists, revert to a previous known good package.
SMAN-3-NO_CDL_FILE	3-Error	Could not access command definition file [chars]: [chars]	During initialization, the Shell Manager loads a XML CDL file to load all the CLI structure. This file is for some reason not found.	iosxe-shellmgr	Check the Shell Manager trace file for related details.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SMAN-3-PTL_RENDERER_FAILURE	3-Error	Rendering error with [chars].[chars]. Transform is missing or invalid for data.		ios-shelfmgr	This error indicates a configuration issue resulting from bad or mismatched packages. Review the Shell Manager trace files and log files. Uninstall, then reinstall, any new packages.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			The Shell Manager process attempted to render a command response but the transformation failed due to an internal error. The failure may have been caused by a missing transform file or an included file cannot be found. The transformation may also fail if the data returned in the response is binary and has not been processed correctly. In this case, the rendering engine is unable to interpret the data resulting in a failure. The		

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
			transformation may also fail if there is a mismatch of packages installed on the system. In this case, incompatible messages are exchanged between the Shell Manager and the daemon servicing the command request and incorrect data is passed to the rendering engine.		
SMAN-5-CRFT_CLEARCOUNTERS_REQUEST_SUCCESS	5-Notice	CRFT clear counters completed successfully.	This message serves to inform the user of exactly when the clearcounters operation completes and they are no longer waiting for additional processes	polaris-crft	No action required. This message is expected

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SMAN-5-CRFT_COLLECT_REQUEST_INPROGRESS	5-Notice	CRFT collection already in progress. Please try again later	CRFT collection is something that should happen infrequently so if there is already a collection request in progress we reject the incoming request and emit a message to the user informing them that their request is rejected.	polaris-crft	Try the request again later if necessary

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
SMAN-5-CRFT_COLLECT_REQUEST_NOT_SUPPORTED	5-Notice	CRFT collection request not supported on peer [chars]	Some processes may not support CRFT collection for any of a number of reasons. This message serves to alert the user so that they do not go searching for CRFT stats for the process in question and determine an error has occurred when they cannot find them	polaris-crft	None. Information only.
SMAN-5-CRFT_COLLECT_REQUEST_SUCCESS	5-Notice	CRFT collection completed successfully.	This message serves to inform the user of exactly when the collection completes and they are no longer waiting for additional processes	polaris-crft	No action required. This message is expected

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SMAN-5-CRFT_EXPORT_REQUEST_SUCCESS	5-Notice	CRFT export completed successfully.	This message serves to inform the user of exactly when the export operation completes and they are no longer waiting for additional output feedback	polaris-crft	No action required. This message is expected
SMAN-5-CRFT_RELOAD_REQUEST_SUCCESS	5-Notice	CRFT reload collection completed successfully.	This message serves to inform the user of exactly when the export operation completes and they are no longer waiting for additional output feedback	polaris-crft	No action required. This message is expected
SPECTRUM-3-EWLC_EXEC_ERR	3-Error	%% Error: AP %02x%02x%02x%02x%02x%02x [chars]	Improper configuration for dual band AP	ewlc-rrm	please check the requested configuration against ap type
SPECTRUM-6-AUTHZ_RF_DOS	6-Information	Detected RF-based DoS by AP (name: [chars], mac: [chars]), on Slot: [dec], Band: [dec], Channel: [chars] with RSSI: [dec] dbm.	RF jamming is detected	ewlc-wips	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
SS-2-INITIALIZATION_FAILED	2-Critical	Initialization of [chars] failed for IOx Secure Storage	Initialization of IOx Secure storage process failed.	polaris-infra	Review ioxss logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log.
SSLMGR-0-ASYMMETRIC_KEY_FAIL	0-Emergency	Asymmetric key failure: [chars].	Asymmetric key failure.	iosxe-ssl	No action required - forwarding processor (ESP) rebooted automatically.
SSLMGR-0-N2_VSERVER_FAIL	0-Emergency	Virtual server context failure: [chars].	Cryptographic coprocessor critical operation failed. Further data processing on ESP is halted	iosxe-ssl	forwarding processor (ESP) is rebooted automatically. no action needed
SSLMGR-0-SYMMETRIC_KEY_FAIL	0-Emergency	Symmetric key failure: [chars].	Symmetric key failure.	iosxe-ssl	No action required - forwarding processor (ESP) rebooted automatically.
SSLMGR-3-N2_CONTEXT_FAIL	3-Error	Context failure: [chars].	Coprocessor context operation failed due to resource limit	iosxe-ssl	Monitoring required
SSLMGR-5-GATEWAY_UPDOWN	5-Notice	sslvpn gateway : [chars] changed state to [chars]	sslvpn gateway changed state	iosxe-ssl	ACTION_NONE_REQUIRED

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SSLVPNMGR-5-HTTP_REQUEST_NOT_AUTHORIZED	5-Notice	HTTP request without login cookie. [chars]\n	This message indicates that HTTP request doesn't have valid login cookie and is not authorized to access the resource	iosxe-ssl	ACTION_NONE_REQUIRED
SSLVPNMGR-5-LOGIN_AUTH_FAILED	5-Notice	Failed to contact authentication server. [chars]\n	Authentication server is unavailable because it is down or unreachable	iosxe-ssl	Verify if routes are configured correctly to reach authentication and the server is configured correctly
SSLVPNMGR-5-LOGIN_AUTH_PASSED	5-Notice	Authentication successful, user logged in. [chars]\n	This message indicates that login authentication succeeded for user	iosxe-ssl	ACTION_NONE_REQUIRED
SSLVPNMGR-5-LOGIN_AUTH_REJECTED	5-Notice	Failed to authenticate user credentials. [chars]\n	Authentication server failed to validate credentials provided by the user to login under webvpn context	iosxe-ssl	Check username and password configured on authentication server

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
SSLVPNMGR-5-SSL_CONNECT_OK	5-Notice	SSL/TLS connection successful with client [chars]\n	This message indicates that SSL/TLS handshake with peer was successful	iosxe-ssl	ACTION_NONE_REQUIRED
SSLVPNMGR-6-CONTEXT_MAX_USERS_LOGIN_DENIED	6-Information	Login denied for user [chars]. Max users exceeded for context [chars]\n	This message indicates that user was denied to login because the the max users for the context has been exceeded	iosxe-ssl	Check the gateway configuration and reconfigure the maximum allowed users in the context
SSLVPNMGR-6-GLOBAL_MAX_USERS_LOGIN_DENIED	6-Information	Login denied for user [chars]. Global max users limit reached\n	This message indicates that user was denied to login because the the max users limit reached	iosxe-ssl	ACTION_NONE_REQUIRED
SSLVPNMGR-6-SESSION_TERMINATE	6-Information	Session terminated. [chars]\n	SSLVPN session was terminated	iosxe-ssl	ACTION_NONE_REQUIRED

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
STACKMGR-1-DUAL_ACTIVE_CFG_MSG	1-Alert	Dual Active Detection [chars]\n	Switch detected availability or unavailability of Dual Active Detection ports.	iosxe-fwdmgr	No action is required
STACKMGR-1-EPA_MISMATCH	1-Alert	[chars]. The mis-match may caused by hardware failure or different EPA types.\n	The Standby EPA mismatch with Active EPA.	iosxe-fwdmgr	Need to make them match
STACKMGR-1-FATAL_ERR	1-Alert	Stack manager encountered an unrecoverable error. [chars]\n	The stack manager process has encountered an unrecoverable error and the switch is being reloaded.	iosxe-fwdmgr	Please ensure valid switch numbers are being used. If you still believe there is an error in the system, please send the system report to a TAC representative
STACKMGR-1-LIC_MISMATCH	1-Alert	License level is [chars] and needs to be upgraded to [chars] for Stackwise Virtual to function.\n	Current Licnese level on active switch does not support Stackwise Virtual.	iosxe-fwdmgr	Need to be upgraded to supported license level
STACKMGR-1-RELOAD	1-Alert	Reloading due to reason [chars]\n	The specified switch has received a reload request and is being reloaded.	iosxe-fwdmgr	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
STACKMGR-1-RELOAD_REQUEST	1-Alert	Received reload request for [chars], reason [chars]\n	The specified switches are being reloaded.	iosxe-fwdmgr	No action is required
STACKMGR-1-STACK_MERGE_IGNORE	1-Alert	Stack Merge Ignored [chars]\n	Switch detected multiple Active switches. But stack-merge is being ignored.	iosxe-fwdmgr	No action is required
STACKMGR-4-SWITCH_ADDED	4-Warning	[chars] [dec] has been added to the stack.\n	The specified switch has been added to the stack.	iosxe-fwdmgr	No action is required
STACKMGR-4-SWITCH_REMOVED	4-Warning	[chars] [dec] has been removed from the stack.\n	The specified switch has been removed from the stack.	iosxe-fwdmgr	No action is required
STACKMGR-5-CHASSIS_ROLE_UPDATE_FAIL	5-Notice	Failed to Set [chars] Chassis [dec] chassis_role [chars]	This is used to indicate that update to new role failed	iosxe-fwdmgr	This is a rare failure condition. Please reach out to TAC
STACKMGR-5-FAST_RELOAD_DONE	5-Notice	Fast reload operation completed successfully on entire stack	This is used to indicate that the fast reload on stack is complete.	accsw-p-fsu	No action needed. This is not an error.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
STACKMGR-6-ACTIVE_ELECTED	6-Information	[chars] [dec] has been elected ACTIVE.\n	The specified switch has been elected active.	iosxe-fwdmgr	No action is required
STACKMGR-6-ACTIVE_READY	6-Information	Active [chars] [dec] is ready.\n	The active switch is ready.	iosxe-fwdmgr	No action is required
STACKMGR-6-CHASSIS_ADDED	6-Information	[chars] [dec] has been added to the stack.\n	The specified chassis has been added to the stack.	iosxe-fwdmgr	No action is required
STACKMGR-6-CHASSIS_READY	6-Information	[chars] [dec] is ready.\n	The specified chassis is ready.	iosxe-fwdmgr	No action is required
STACKMGR-6-CHASSIS_REMOVED	6-Information	[chars] [dec] has been removed from the stack.\n	The specified chassis has been removed from the stack.	iosxe-fwdmgr	No action is required
STACKMGR-6-CHASSIS_REMOVED_KA	6-Information	[chars] [dec] has been removed from the stack due to keepalive failure. \n	Chassis has been removed due to the keepalive failure.	iosxe-fwdmgr	No action is required
STACKMGR-6-DISC_DONE	6-Information	[chars] [dec] has finished stack discovery.\n	The specified switch has completed stack discovery and is moving to the election phase.	iosxe-fwdmgr	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
STACKMGR-6-DISC_START	6-Information	[chars] [dec] is starting stack discovery.\n	The specified switch is starting stack discovery.	iosxe-fwdmgr	No action is required
STACKMGR-6-KA_MISSED	6-Information	Keepalive missed for [dec] times for [chars] [dec] \n	Chassis has been removed due to the keepalive failure.	iosxe-fwdmgr	No action is required
STACKMGR-6-STACK_LINK_CHANGE	6-Information	Stack port [dec] on [chars] [dec] is [chars]\n	The specified stack port has changed status.	iosxe-fwdmgr	No action is required
STACKMGR-6-STANDBY_ELECTED	6-Information	[chars] [dec] has been elected STANDBY.\n	The specified switch has been elected standby.	iosxe-fwdmgr	No action is required
STACKMGR-6-SWITCH_READY	6-Information	[chars] [dec] is ready.\n	The specified switch is ready.	iosxe-fwdmgr	No action is required
SUBSYS-3-SUBSYS_CLASS	3-Error	[chars] subsystem [chars] has class [chars]	The task has detected a subsystem which has an unsupported class in its header.	iosxe-bmcs-utils	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SUBSYS-3-SUBSYS_RECURSION	3-Error	[chars] subsystem [chars] maxiumum sequence depth [dec] exceeded	The task has detected that a subsystem upon insertion has exceeded the depth of insertion.	iosxe-binos-utils	LOG_STD_ACTION
SUBSYS-3-SUBSYS_VERSION	3-Error	[chars] subsystem [chars] has unsupported version: [dec]	The task has detected a subsystem which has an unsupported version in its header.	iosxe-binos-utils	LOG_STD_ACTION
SUBSYS-6-SUBSYS_SEQUENCE	6-Information	[chars] subsystem [chars] has cross class sequence for [chars]	The task has detected a subsystem which has an incorrect class for which it is being considered for.	iosxe-binos-utils	LOG_STD_ACTION
SUBSYS-6-SUBSYS_UNORDERED	6-Information	Subsystem class [dec] ([chars]) has no order	The task has detected a class which has an unknown order upon initialization.	iosxe-binos-utils	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SWITCH-3-L2_L3_CONVERT	3-Error	Failed to convert interface [chars] into an [chars] port	An error occured while changing the port mode from L2 to L3 or vice versa.	ios-nt-platform	Try reloading the device. 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.
SYSHW-3-SYSHW_READ	3-Error	A read operation has failed for device: [chars] error: [chars]	A syshw read operation failed for the mentioned device	polaris-infra	The error message indicates a read failure for the device. No action is needed from the user. However, if these errors come continuously or frequently, it may indicate permanent fault with the specific device/component.
SYSHW-3-SYSHW_REG_READ	3-Error	A register read operation has failed for device: [chars] register: [chars] error: [chars]	A syshw register read operation failed for the mentioned device	polaris-infra	The error message indicates a read failure for the device. No action is needed from the user. However, if these errors come continuously or frequently, it may indicate permanent fault with the specific device/component.
SYSHW-3-SYSHW_REG_WRITE	3-Error	A register write operation has failed for device: [chars] register: [chars] error: [chars]	A syshw register read operation failed for the mentioned device	polaris-infra	The error message indicates a read failure for the device. No action is needed from the user. However, if these errors come continuously or frequently, it may indicate permanent fault with the specific device/component.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SYSHW-3-SYSHW_WRITE	3-Error	A write operation has failed for device: [chars] error: [chars]	A syshw write operation failed for the mentioned device	polaris-infra	The error message indicates a write failure for the device. No action is needed from the user. However, if these errors come continuously or frequently, it may indicate a permanent fault with the specific device/component.
SYSPLAT-3-PLIM_BRIDGE_CRITICAL_ERROR	3-Error	Reloading [chars] due critical event %#x in block [chars]/[dec] of PLIM device	A critical PLIM device I/O event has occurred.	arl-infra-intl	The system automatically reloads the hardware component experiencing the error. If the problem persists, copy the message exactly as it appears on the console or in the system log, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.
SYSPLAT-3-PLIM_CRITICAL_ERROR_RATE	3-Error	Reloading [chars] due to critically high PLIM device error rate.	A Serial Bridge has experienced a persistently high error rate. The condition is serious and the card must be reloaded. This could be due to a hardware or software driver defect.	arl-infra-intl	Copy the message exactly as it appears on the console or in the system log, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SYSPLAT-5-PLIM_BLOCK_EVENT	5-Notice	Block [chars]/[dec] of PLIM device had I/O event %#x	A PLIM device I/O event has occurred. This event is not serious but is logged for diagnostic purposes.	ark-infra-intrl	No user action is required.
SYSPLAT-5-PLIM_EVENT_RATE	5-Notice	The [chars] event rate of [dec] has exceeded the threshold of [dec] on interconnect [dec]	A Serial Bridge has experienced a high event rate. This condition is not considered serious, but is logged for diagnostic purposes. This could be due to a hardware or software driver defect.	ark-infra-intrl	No user action is required. If this message persists, a PLIM device critical message that needs to be addressed will appear.
SYSTEM-2-REBOOT_ABORTED	2-Critical	System reboot aborted due to [chars]	This syslog is generated when system reboot is aborted due to an error	cedge-install	If reboot is aborted due to software error, please contact Cisco TAC

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SYSTEM-3-CONFIG_BACKUP_FAILURE	3-Error	Failed to backup config	This error syslog is generated when config cannot be backed up by SD-WAN Edge device	edge-config-backup	Please create a ticket with Cisco TAC
SYSTEM-4-SSL_CERT_WARNING	4-Warning	SSL certificate warning: [chars] (code: [chars])	This syslog is generated when self-signed certificates are used for communication Self signed certificates are not considered secure and must be replaced with certificates provided by verified distributors	edge-install	Customers are expected to delete self-signed certificates and replace with them Enterprise certificates

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
SYSTEM-5-CONFIG_BACKUP_SUCCESS	5-Notice	Config backed up successfully	This notice syslog is generated whenever config is backed up by SD-WAN Edge device. This is typically done whenever control connectivity with SD-WAN Manager is established	cedge-config-mgmt	No action is required
SYSTEM-5-REBOOT_ISSUED	5-Notice	System reboot issued, reason: [chars]	This syslog is generated when system reboot is issued	cedge-install	No action is required
SYSTEM-5-SOFTWARE_INSTALL_STATUS	5-Notice	Software install stage: [chars], install-id: [chars], message: [chars]	This syslog is generated during software installation which goes through multiple stages	cedge-install	No action is required

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
SYSTEM-6-CLI_COMMIT	6-Information	CLI commit done by user [chars]	This info syslog is generated when a user alters config via CLI. CLI is usually locked when a device is managed by Cisco SD-WAN Manager, however when the control connection is down, CLI session is unlocked for users and user can commit via CLI	vip-vdaemon	No action is required
SYSTEM_CONFIG_MESSAGE-2-APPLE_TRANSFER_HTTPS_CUST_PORT	2-Critical	CRITICAL, [chars]	General WLC critical message	iosxe-binos-utils	LOG_STD_ACTION
SYSTEM_CONFIG_MESSAGE-3-ACL_FLEX_ERR	3-Error	Error in [chars]	ewlc ACL flex push error message.	iosxe-binos-utils	LOG_STD_ACTION
SYSTEM_CONFIG_MESSAGE-3-ACL_INDEX_ERR	3-Error	Error in [chars]	ewlc ACL flex index error message.	iosxe-binos-utils	LOG_STD_ACTION
SYSTEM_CONFIG_MESSAGE-5-UNSUPORTED_FLEX_ACL_RULE	5-Notice	Unsupported rule: [chars], in flex acl: [chars]	unsupported rule in flex acl	iosxe-binos-utils	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
TAGMGR_DB_SYSLOG-3-TAGMGR_RF_TAG_CREATE_ERROR	3-Error	Failure during RF tag [chars] creation, could not add to rf profile tag list	Failed to add RF tag to RF profile tag list	ewlc-rrm	Please delete the RF tag and configure again
TAGMGR_DB_SYSLOG-3-TAGMGR_WLAN_VAP_ID_ERR	3-Error	WLAN to VAP-ID mapping for policy-tag: '[chars]', [chars]	WLAN to VAP-ID mapping error for a given policy-tag	ewlc-ap	Please follow best practice guidelines to avoid WLAN to VAP-ID mapping failures
TAGMGR_DB_SYSLOG-5-TAGMGR_WLAN_VAP_ID_NOTICE	5-Notice	WLAN to VAP-ID mapping for policy-tag: '[chars]', [chars]	WLAN to VAP-ID mapping information for a given policy-tag	ewlc-ap	Please follow best practice guidelines to avoid WLAN to VAP-ID mapping failures
TAGMGR_TRACE_MSG-3-TAG_EASY_PSK_CONFIG_WARNING	3-Error	Easy-PSK config validation error: [chars]	Easy-PSK CONFIG warning message	ewlc-spwifi	LOG_STD_ACTION
TAGMGR_TRACE_MSG-3-TAG_MPSK_CONFIG_WARNING	3-Error	MPSK config validation error: [chars]	MPSK CONFIG warning message	ewlc-ap	LOG_STD_ACTION
TAGMGR_TRACE_MSG-4-TAG_CONFIG_WARNING	4-Warning	Warning: [chars]	General Wireless LAN Controller warning message	ewlc-ap	LOG_STD_ACTION
TAGMGR_TRACE_MSG-5-WLC_MODE_CHANGE	5-Notice	Mode Change: [chars]	Msg indicating AP reboot during Mode Change	ewlc-ap	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
TDLDB-3-DATABASE_MEMORY_LEAK	3-Error	Database memory leak detected in [chars] database, [chars]/[chars]/[chars] size: [dec] bytes, callsite %llX	A memory leak has been detected in the database memory. The leaked object is identified by name	iosxe-p-db	LOG_STANDARD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
TDLDB-3-DBPERSIST_OPERATION_FAILURE	3-Error	Operation: [chars], DB: [chars], Failure reason: [chars]		iosxe-p-db	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			Database persistent operation can be triggered by 1. Persist : write memory or reload CLI 2. Delete : write erase CLI 3. Restore : During boot time, when database is first opened When error occurs, it can impact the customer in this way 1. Persist : DB content can not be persisted, data will be lost after system reload. If reload CLI command fails, it does not allow the system getting reloaded. 2. Delete :		

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			There may be database residue in the persistent storage media. 3. Restore : Persistent content cab be lost		
TDLDB-3-INVALID_TABLE_FREE	3-Error	Invalid table free by process [chars] in [chars] on table with luid [chars]	In shared databases, only the garbage collector should be performing table and record deletes on tables that have read cursors enabled. A non-gc process has performed a table deletion.	iosxe-p-db	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
TDLDB-3-SESSION_LOCK_TIMEOUT	3-Error	Owner: user-proc: [chars], DB: [chars]. Lock expired [chars] ago.	An application running in a process wishes to have an exclusive write access to DB. It acquires a session lock with for a specific period and is expected to release or renew the session lock. The appication has failed to do so and hence the unexpected timeout has occured	polaris-infra	This is unexpected. Report this to Cisco TAC.
TDLDB-3-WRITE_ON_SNAPSHOT	3-Error	Process writing on snapshotted DB [[chars]]	Application is trying to write on a snapshotted DB. A snapshotted DB is read-only and any write operation is not effective.	polaris-infra	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
TDLDB-4-LONG_READ_WRITE_LOCK_HELD	4-Warning	Process held [chars] lock on DB [[chars]] for [[dec]] ns	Application has held the read/write lock for fairly long time. If this error is thrown, it means that the lock has been held for more than 1 sec.	iosxe-p-db	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
TDLDB-6-DBPERSIST_OPERATION_INFO	6-Information	Cancelled [chars] operation and is intended - DB: [chars], Reason: [chars]	When this message is observed, the reason can be 1. DB format version mismatched - database format definition can be changed. If mismatched, the operation is cancelled and this is an intended behavior. 2. DB base pointer mismatched - database base pointer can be modified. If changed, the operation is cancelled and this is an intended behavior.	iosxe-p-db	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
TDLDB-6-SUBSCRIPTION_DAMPENING_INACTIVE	6-Information	Subscription dampening inactive for DB [chars] on table [chars]. All on-change updates for the table will be sent. Consider re-adjusting the dampening period	On-change Subscription enabled with dampening will be temporarily in-active due to load on system or due to incorrect dampening interval configured.	iosxe-p-db	LOG_STD_ACTION
TDLDB-6-SUBSCRIPTION_DAMPENING_REACTIVATE	6-Information	Dampening subscription re-activated for DB [chars] on table [chars]	On-change Subscription re-activated with dampening resumed after it got paused	iosxe-p-db	LOG_STD_ACTION
THERMAL-1-THERMAL_GREEN_THRESHOLD	1-Alert	Hotspot temperature has exceeded GREEN threshold\n	The switch is too cold.	platform_mgr	Check the switch's environment is a safe operating temperature. If problem persists, replace the switch.
THERMAL-1-THERMAL_RED_THRESHOLD	1-Alert	Hotspot temperature has exceeded RED threshold. Switch will shutdown soon.\n	The hotspot temperature is critically overheated. The switch will soon shutdown to prevent permanent damage.	platform_mgr	Check the switch's environment is a safe operating temperature. If problem persists, replace the switch.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
THERMAL-2-THERMAL_YELLOW_THRESHOLD	2-Critical	Hotspot temperature has exceeded YELLOW threshold\n	The hotspot temperature is too high. Improve cooling immediately.	platform_mgr	Check the switch's environment is a safe operating temperature. If problem persists, replace the switch.
TH_WARN_MGR-2-WIRELESS_CLIENTS_THRESHOLD_CLEAR	2-Critical	Current percentage of joined wireless clients ([dec]) returned below the configured threshold ([dec])	The number of clients currently joined to the wireless controller returned below the configured threshold for the device	iosxe-binos-utils	If this message occurs, you need to carefully check if you need a more capable controller for the number of wireless clients you are trying to serve
TH_WARN_MGR-2-WIRELESS_CLIENTS_THRESHOLD_HIT	2-Critical	Current percentage of joined wireless clients ([dec]) exceeded the configured threshold ([dec])	The number of clients currently joined to the wireless controller has exceeded the configured threshold for the device	iosxe-binos-utils	If this message occurs, you need to carefully check if you need a more capable controller for the number of wireless clients you are trying to serve

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
TIMINGD-0-EVENT_LIBRARY	0-Emergency	An event facility initialization or maintenance function failed because [chars]	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	iiot-rtr-timing	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.
TIMINGD-0-IPC_CONNECTION_INVALID	0-Emergency	An IPC connection has invalid state.	An IPC connection has an invalid state. This could be due to a software defect or system resource exhaustion.	iiot-rtr-timing	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.
TIMINGD-0-IPC_CONNECT_MASTER	0-Emergency	IPC connection to the active RSP failed because [chars]	IPC connection to the active RSP failed. This could be due to a software defect or system resource exhaustion.	iiot-rtr-timing	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
TIMINGD-0-IPC_INITIALIZATION	0-Emergency	IPC initialization failed because [chars]	IPC initialization failed. This could be due to a software defect or system resource exhaustion.	iiot-rtr-timing	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.
TIMINGD-0-MESSAGE_REGISTER	0-Emergency	Failed to register with active RSP because [chars]	The active RSP failed to register.	iiot-rtr-timing	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.
TIMINGD-0-MESSAGE_RELAY	0-Emergency	Failed to relay a message because [chars]	Failed to relay a message. This could be due to a software defect or system resource exhaustion.	iiot-rtr-timing	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.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
TIMINGD-0-MESSAGE_RESPONSE	0-Emergency	An invalid message response was received because [chars]	An invalid message response was received. This could be due to a software defect or system resource exhaustion.	iiot-rtr-timing	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.
TIMINGD-0-MQIPC_ADVANCE	0-Emergency	Failed to advance MQIPC queue because [chars]	The MQIPC initialization failed.	iiot-rtr-timing	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.
TIMINGD-0-MQIPC_INITIALIZATION	0-Emergency	MQIPC initialization failed because [chars]	MQIPC initialization failed. This could be due to a software defect or system resource exhaustion.	iiot-rtr-timing	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.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
TIMINGD-0-PEER_TABLE	0-Emergency	A peer table initialization or maintenance function failed because [chars]	A peer table initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	iiot-rtr-timing	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.
TIMINGD-0-RESOURSE	0-Emergency	Resource allocation failed in [chars] because [chars]	The system is unable to allocate the requested resource.	iiot-rtr-timing	In most cases, this message is seen as a result of a temporary resource issue. Retry the request for the resource when the system is experiencing lower traffic volumes. If the message persists, reload the router using the reload command.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
TLSCD-4-DNS_RESOLVER_FAILURE	4-Warning	DNS resolver failed for url [chars] session [chars].	The TLS Client daemon attempted to resolve the server url and API is failing/timing out. The failure may have been caused by a miss configuration of nameserver or url string in crypto tls-tunnel configuration. Daemon shall be retrying to resolve the url periodically.	iosp-tlsc-infra	This error indicates a configuration issue for url resolution.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
TLSCD-4-TPS_CERT_RESP_FAILURE	4-Warning	TPS certificate response failed for session session [chars].	The TLS Client daemon process attempted to get the ceritificate from IOSd and API is failing/timing out. The failure may have been caused by a miss configuration of pki trustpoint crypto tls-tunnel configuration.	iosp-tlsclnt-infra	This error indicates a configuration issue for pki trustpoint.
TLSCD-5-SESSION_UPDOWN	5-Notice	Session [[chars]] to TLSGW: [[chars]] is [chars].	The TLS Client daemon process session status notification.	iosp-tlsclnt-infra	The TLS Client daemon process session status.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
TTYMON-3-AGETTY	3-Error	Cannot initiate a switch in console ownership. A required program could not be launched successfully.		isve-linux-utils	Some required programs are either not available or not configured correctly or are failing for some reason. If this occurs after a recent upgrade it is possible that the upgrade has corrupted the current installation.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			The Host Manager process on the Route Processor, and only the Route Processor, is responsible for determining which process has control of the console port, either IOSd or an IOSXE process. A user can initiate a switch in ownership by by entering the 'send break' command at a telnet prompt to switch from IOSd to a shell instance. Control is returned to IOSd by exiting the shell instance. Switching ownership		

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			of the console port is initiated by the user entering a 'send break' command at a telnet prompt. The Host Manager launches one or more programs to authenticate users and to provide a shell instance. One or more of these programs has not been configured correctly.		

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
TTYMON-3-CHASFS	3-Error	The software which monitors ownership of the console port cannot [chars] a filesystem configuration value.		ios-chassis	Check the log files for the Host Manager and search for entries related to 'ttymon' and 'chasfs' and this should give an indication as to why the operation failed. Check available resources and see if other daemons are also experiencing problems with the chassis filesystem since this may indicate a more pervasive problem. If so the reboot the box.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			The Host Manager process on the Route Processor, and only the Route Processor, is responsible for determining which process has control of the console port, either IOSd or an IOSXE process. A user can initiate a switch in ownership by by entering the 'send break' command at a telnet prompt to switch from IOSd to a shell instance. Control is returned to IOSd by exiting the shell instance. The component		

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			within the Host Manager responsible for monitoring a change of console ownership uses the filesystem to store various settings. This error indicates that the daemon encountered a problem either reading or writing a value from/to the filesystem.		

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
TTYMON-3-INIT	3-Error	The software which monitors ownership of the console port cannot be initialized correctly		ios-host-services	Check the status of the Host Manager process. Check the Host Manager log files for further indications as to why the initialization failed and if necessary restart the machine.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			The Host Manager process on the Route Processor, and only the Route Processor, is responsible for determining which process has control of the console port, either IOSd or an IOSXE process. A user can initiate a switch in ownership by by entering the 'send break' command at a telnet prompt to switch from IOSd to a shell instance. Control is returned to IOSd by exiting the shell instance. The component		

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
			within the Host Manager responsible for this has encountered an initialization error and console monitoring is no longer available.		

U to Z

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
UBD-0-EVENT_LIBRARY	0-Emergency	An event facility initialization or maintenance function failed because [chars]	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.	polaris-infra	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 inforation to a Cisco technical support representative.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
UBD-0-MQIPC_ADVANCE	0-Emergency	Failed to advance MQIPC queue because [chars]	The MQIPC initialization failed.	polaris-infra	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.
UBD-0-MQIPC_INITIALIZATION	0-Emergency	MQIPC initialization failed because [chars]	MQIPC initialization failed. This could be due to a software defect or system resource exhaustion.	polaris-infra	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.
UBD-2-INITIALIZATION_FAILED	2-Critical	URSA Bootstrap initialization for [chars] failed.	Initialization of ursa bootstrap process failed.	polaris-infra	Review UBOOTD logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
UICFGEXP-3-LIBRARY_ERROR	3-Error	Error loading library '[chars]': [chars]	A configuration message was received which required a library to be loaded. The library failed to load.	iosxe-ui	LOG_STD_ACTION
UICFGEXP-3-MESSAGE_ERROR	3-Error	Unable to process message for '[chars]': [chars]	A message was received by the configuration export module which could not be processed. The message has been discarded.	iosxe-ui	LOG_STD_ACTION
UICFGEXP-3-SYMBOL_ERROR	3-Error	Error loading library symbol '[chars]' from '[chars]': [chars]	A configuration message was received which required a library to be loaded. The library failed to load all required symbols.	iosxe-ui	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
UICFGEXP-3-WRITE_FAILED	3-Error	Unable to write configuration for '[chars]': [chars]	The configuration export module failed to write the server configuration files. The server configuration change has not occurred.	iosxe-ui	LOG_STD_ACTION
UICFGEXP-6-SERVER_NOTIFIED_START	6-Information	Server [chars] has been notified to start	The server has been notified to start.	iosxe-ui	LOG_STD_NO_ACTION
UICFGEXP-6-SERVER_NOTIFIED_STOP	6-Information	Server [chars] has been notified to stop	The server has been notified to stop.	iosxe-ui	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
UIPEER-2-TDL_MESSAGE	2-Critical	Cannot construct an IPC message for library. The message name is [chars] and the reason is: [chars]	A problem occurred while constructing a type definition language (TDL) message or setting a field in a TDL message. If the problem occurred during construction of a TDL message, then the system is out of memory. If the problem occurred while setting a field in the TDL message, there is a library mismatch issue.	ise-bnc-utils	Check [uipeer] ERR entries in the log files for message reporting problems.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
UIPEER-3-INVALID_DEBUG_MESSAGE	3-Error	The peer process was unable to process an incoming message for 'debug all' from the shell-manager	When the 'debug all' command is issued, the Shell Manager broadcasts a notification of the command request to its peers. If the notification message has been corrupted or incorrectly created, the peers cannot complete the requested operation.	ios-shmgr	Check the trace files for the Shell Manager failed process. Restart the system.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
UIPEER-3-INVALID_EPOCH_MESSAGE	3-Error	The peer process was unable to process an incoming epoch update message from the shell-manager	For each new type definition language (TDL) epoch, the Shell Manager broadcasts a change notification message to its peers. If the Shell Manager's message is incorrect or corrupt, the peers are unable to identify the new epoch. In this case, the peers reject the proposed epoch.	infra-tdl	Check the trace files for the Shell Manager failed process. Check or undo any recently installed packages, then restart the system.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
UIPEER-3-INVALID_HOSTINFO_MESSAGE	3-Error	The peer process was unable to process an incoming message for host info from the shell-manager	When host information, such as the hostname, changes, the Shell Manager broadcasts a notification of the change to its peers. If the notification message has been corrupted or incorrectly created, the peers cannot complete the requested operation.	ios-shmws	Check the trace files for the Shell Manager failed process. Restart the system.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
UIPEER-3-NO_PEER	3-Error	A process was unable to retrieve a shell-manager peer handle.	A process was attempting to communicate with the Shell Manager daemon using the integrated [uipeer] component. The error occurred because the peer instance could not be found.	iosxe-bmcs-utils	Check [uipeer] ERR entries in the log files for message reporting problems.
UIPEER-3-SET_LOG_TRACELOG_NUM	3-Error	Tracelog number for process [chars] changed to [dec]	Tracelog number to keep for a process is changed using set logging tracelog-number .. CLI	polaris-trace	No action is required. This is informational message
UIPEER-5-TIMER_ACCURACY_TEST	5-Notice	Timer Accuracy Test [chars].	Test result of Timer Accuracy Test	iosxe-bmcs-utils	No action is required. This is informational message
UPGRADE-3-AP_SW_UPDATE_ERR_LOG_MSG	3-Error	AP SW update [chars]	AP Software Update logging	ewlc-upgrade	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

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
UPGRADE-3-AP_UPGRADE_CLEAR_REPORT_NAME_ERROR	3-Error	AP Upgrade clear report error, failed to find upgrade report name : <[chars]> from upgrade report table	Error occured in deleting record from upgrade report table. Operation aborted.	ewlc-upgrade	LOG_STD_ACTION
UPGRADE-3-AP_UPGRADE_CLEAR_REPORT_NAME_IN_PROGRESS_ERROR	3-Error	Staggered AP Upgrade in progress, failed to delete upgrade record with report name : <[chars]> from upgrade report table	Error occured in deleting record from upgrade report table. Operation aborted.	ewlc-upgrade	LOG_STD_ACTION
UPGRADE-3-AP_UPGRADE_FALLBACK_ERROR	3-Error	AP Upgrade fallback error	Error occured in upgrade fallback process. Operation aborted.	ewlc-upgrade	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
UPGRADE-3-AP_UPGRADE_FALLBACK_INIT_TIMEOUT	3-Error	Timeout occurred either source controller is not responding or has responded with invalid software version. Aborting fallback process	Timeout occurred. Source controller is not responding to the upgrade fallback version request message or it has responded with an invalid software version. Aborting fallback process	cwlc-upgrade	Please reload source controller with valid image and initiate upgrade process from destination controller by using CLI: 'ap image move destination <Destination Name> <Destination IPv4/IPv6 address> <Report name>'
UPGRADE-3-AP_UPGRADE_FALLBACK_TYPE_MSG_ERROR	3-Error	AP upgrade process aborted. Failed to send fallback type message to peer	Error occured while sending fallback type message to peer. Operation aborted.	cwlc-upgrade	Please restore the mobility status between source and destination controller
UPGRADE-3-AP_UPGRADE_FALLBACK_VERSION_VALIDATION_FAILURE	3-Error	Source controller is not responding or has responded with invalid software version	Source controller is not responding to the upgrade fallback version request message or it has responded with an invalid software version	cwlc-upgrade	Please reload source controller with valid image

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
UPGRADE-3-AP_UPGRADE_RESUME_ERROR	3-Error	AP upgrade process cannot be resumed. Please restart AP upgrade for the remaining APs.	AP upgrade process cannot be resumed after tunnel is up.	ewlc-upgrade	Restart the upgrade process to upgrade/move the remaining APs.
UPGRADE-3-CONFIG_NOT_SUPPORTED	3-Error	Destination controller does not support the configurations for AP upgrade.	Destination controller is running older version of the OS, hence the configs for serial AP upgrade are not allowed.	ewlc-upgrade	Check if destination WLC supports serial configuration. If it does not, configure a value supported by destination WLC and retry. If it does, then this failure could have been a result of temporary mobility tunnel connectivity loss; restore connectivity and retry. If these options do not work LOG_STD_ACTION
UPGRADE-3-DESTINATION_NOT_READY	3-Error	Destination controller not ready. Aborting upgrade process	Destination controller may be going through another AP upgrade or move	ewlc-upgrade	Please wait for the current ap upgrade to finish before triggering this command.
UPGRADE-3-DESTINATION_NOT_RESPONDING	3-Error	AP upgrade process aborted. Destination controller is not responding	Destination controller is not responding to the upgrade request message	ewlc-upgrade	Destination Controller may be down or unreachable. Please restore the mobility status between source and destination controllers before initiation of AP move/upgrade to destination

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
UPGRADE-3-MOBILITY_TUNNEL_DOWN	3-Error	AP upgrade process aborted. Mobility tunnel is down for more than the permissible amount of time	If the mobility tunnel with the peer is down for more than the permissible amount of time, the current upgrade process is aborted	ewlc-upgrade	Please restore the mobility status between source and destination controllers before initiation of AP move/upgrade to destination
UPGRADE-3-STAGGERED_UPGRADE_ABORT_DEST_ERROR	3-Error	Trigger abort CLI from source WLC, fail to abort AP upgrade	AP upgrade abort CLI should be triggered from source WLC.	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-3-STAGGERED_UPGRADE_ABORT_ERROR	3-Error	Staggered AP Upgrade not in progress, fail to abort AP upgrade	Error occured in AP upgrade abort process. Operation aborted.	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-3-STAGGERED_UPGRADE_ERROR	3-Error	Staggered AP Upgrade error: [chars]	Error occured in upgrade reset process. Operation aborted.	ewlc-upgrade	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
UPGRADE-3-STAGGERED_UPGRADE_IN_PROGRESS	3-Error	AP upgrade is in progress. New ap upgrade process is not allowed	If an ap upgrade process is already running, either in source or destination mode, new ap upgrade process is not allowed	ewlc-upgrade	Please wait for the current ap upgrade to finish before triggering this command.
UPGRADE-3-STAGGERED_UPGRADE_MOVE_REPORT_ERROR	3-Error	Invalid ap upgrade report name	Upgrade report name entered is invalid	ewlc-upgrade	Please enter a valid ap upgrade report name.
UPGRADE-5-AP_SW_UPDATE_LOG_MSG	5-Notice	AP SW update [chars]	AP Software Update logging	ewlc-upgrade	No action required
UPGRADE-5-AP_UPGRADE_AP_RESET_FAILURE	5-Notice	AP with MAC: [chars] has not rejoined after software upgrade. No longer accounting for this AP	AP has not rejoined the controller	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-5-AP_UPGRADE_EVENT	5-Notice	Staggered AP upgrade event: [chars]	Staggered AP upgrade event message	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-5-AP_UPGRADE_SITE_FILTER_ANY_IGNORE	5-Notice	Site-filters for any-image will be ignored for APSP/APDP.	Site-filters added with any-image are only applicable for N+1 upgrades.	ewlc-upgrade	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
UPGRADE-5-AP_UPGRADE_SSO_FAILURE	5-Notice	Staggered AP upgrade was interrupted due to SSO. The upgrade process will continue shortly.	Staggered AP upgrade was interrupted due to SSO. The process should restart automatically	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-6-AP_UPGRADE_ANY_IMAGE_DB_DELETE	6-Information	Site-filters added with image name 'any' deleted.	Existing site-filters with image name 'any' are deleted.	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-6-AP_UPGRADE_AP_RESET	6-Information	AP: [chars] has incorrect software. AP is going for reset.	AP is going for a software upgrade	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-6-AP_UPGRADE_CLEAR_REPORT_NAME	6-Information	AP Upgrade record deleted successfully	Deleted AP upgrade record.	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-6-AP_UPGRADE_DB_DELETE	6-Information	Site filters for APSP deleted for the image version [chars]; new image version is [chars]	Existing site-filters for APSP are deleted since the base image is upgraded.	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-6-AP_UPGRADE_FALLBACK_COMPLETE	6-Information	AP Upgrade fallback process completed succesfully	AP Upgrade fallback process completed	ewlc-upgrade	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
UPGRADE-6-AP_UPGRADE_FALLBACK_START	6-Information	AP Upgrade fallback process started	Starting AP upgrade fallback process	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-6-STAGGERED_UPGRADE_ABORT	6-Information	Aborted AP Upgrade successfully	Aborted AP upgrade process.	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-6-STAGGERED_UPGRADE_ABORT_DEST	6-Information	Aborted AP Upgrade forcibly on destination controller	AP upgrade was forcibly stopped on destination controller by the user	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-6-STAGGERED_UPGRADE_COMPLETE	6-Information	Staggered AP Upgrade completed succesfully	All APs in current upgrade process rebooted with the new version	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-6-STAGGERED_UPGRADE_START	6-Information	Staggered AP Upgrade reboot process started	Rebooting given APs in staggered way	ewlc-upgrade	LOG_STD_NO_ACTION
UPGRADE-6-STAGGERED_UPGRADE_WITH_RESET_FALLBACK_COMPLETE	6-Information	Staggered AP Upgrade with fallback type as either reset or reset with fallback completed succesfully	All APs in current upgrade process rebooted with the new version	ewlc-upgrade	LOG_STD_NO_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
UPGRADE_LSC_RENEW-3-AP_LSC_RENEW_ERR	3-Error	AP LSC renew, [chars]	Error syslog msg for AP LSC renewal	ewlc-ap	LOG_STD_NO_ACTION
UPGRADE_LSC_RENEW-4-AP_LSC_RENEW_WARN	4-Warning	AP LSC renew, [chars]	Warning syslog msg for AP LSC renewal	ewlc-ap	LOG_STD_NO_ACTION
UPGRADE_LSC_RENEW-6-AP_LSC_RENEW_INFO	6-Information	AP LSC renew, [chars]	Info syslog msg for AP LSC renewal	ewlc-ap	LOG_STD_NO_ACTION
VCFG-2-INVALID_DB_HANDLE	2-Critical	VCFG invalid Database handle, Led id [dec]	This is an internal software error	iosxe-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.html or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
VCFG-2-RESOURCE_ALLOCATION_ERROR	2-Critical	VCFG Failed to Allocate memory, Led id [dec]	This is an internal software error	ios-sdwan	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen, or contact your Cisco technical support representative and provide the representative with the gathered information.
VD6-2-CONNECT_FAILED_AFTER_SSO	2-Critical	[dec]:[chars] => Server connection failed after SSO, Reason:[chars]	Failed to connect to D6 server after Supervisor Switch over. This error most likely occured due to routing issue or server did not handle the second connection request	ios-sdwan	Verify ping works both ways. Check the arp entries. Try changing the mgmt-ip assigned to D6.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VD6-2-INIT_FAILED	2-Critical	[dec]: => Failed to initialize D6, Reason = [chars]	Failed to initialize D6 discovery on the LED	iosxe-hostmgr	Review the D6 configuration parameters and Memory availability. 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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?referring_site=bugtool or contact your Cisco technical support representative and provide the representative with the gathered information.
VD6-3-CONNECTION_CLOSED_BY_LED	3-Error	[dec]:[chars] => D6 terminated server connection, reason:[chars]	Server connection terminated. Look for the reason in the message. This error most likely occured due to configuration change, D6 server issue or network issue.	iosxe-hostmgr	The reason shall indicate the root cause. The action shall be based on that.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VD6-3-CONNECTION_CLOSED_BY_SERVER	3-Error	[dec]:[chars] => Connection closed by D6 Server:[chars]	Connection closed at the Server side. The D6 Client will retry the connection. This error most likely occured due to configuration change, D6 server issue or network issue.	iosxe-hostmgr	Check the D6 server connection and its status.
VD6-3-ERROR_NOTIFICATION_FROM_SERVER	3-Error	[dec]:[chars] => Received Error notification from Server when expecting [chars] message.	Received error notification from Server. Connection will be closed and re-tried. This error most likely occured due to D6 server issue or network issue.	iosxe-hostmgr	Check the connection, show interface cmd for errors and the D6 server status.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VD6-3-HOLD_TIME_EXPIRED	3-Error	[dec]:[chars] => Hold time expired as no keepalive from D6 server:[chars]	No keepalive messages received from server for a duration that is 3 times that of the negotiated hold time. The connection will be closed and retried. This error most likely occured due to D6 server issue or network issue.	ios-ha-mgr	Check the connection and show interface cmd for errors.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VD6-3-INVALID_MSG_FROM_SERVER	3-Error	[dec]:[chars] => Invalid [chars] message received from server:[chars]	Received message is either incomplete or contains invalid data. The connection will be closed and retried. This error most likely occured due to D6 server issue or network isssue.	iosxe-hostmgr	Check the connection and show interface cmd for errors. Verify QAM hostname matches in CEM.
VD6-3-SEND_MESSAGE_FAILED	3-Error	[dec]:[chars] => Failed to send [chars] message to server:[chars]	Failed to send D6 message to server. The Connection will be closed and retried. This error most likely occured due to config change or network issue.	iosxe-hostmgr	Check the connection and show interface cmd for errors.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VD6-4-UNKNOWN_MSG_FROM_SERVER	4-Warning	[dec]:[chars] => Unknown Message from D6 Server,Message Type = [dec]	Unknown message received from the D6 server. This error most likely occured due to D6 server issue or network issue.	iosxe-hostmgr	Check the connection and show interface cmd for errors
VDAEMON-3-NO_ACTIVE_VBOND	3-Error	Device does not have an active connection to SD-WAN validator	This error syslog is generated when there are no active control connections to Cisco SD-WAN Validator. This could be a temporary situation where control connections flap because of some network issue. This could also imply some issue with SD-WAN Validator	vip-vdaemon	If the issue persists, i.e. control connections to SD-WAN Validator do not come up for long, use vdiagnose utility to identify the reason

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VDAEMON-3-NO_ACTIVE_VSMART	3-Error	Device does not have an active connection to SD-WAN Controller	This error syslog is generated when there are no active control connections to Cisco SD-WAN Controller. This could be a temporary situation where control connections flap because of some network issue. This could also imply some issue with SD-WAN Controller(s)	vip-vdaemon	If the issue persists, i.e. control connections to SD-WAN Controller(s) do not come up for long, use vdiagnose utility to identify the reason
VDAEMON-3-NO_SDWAN_MODE	3-Error	Device does not suppport SD-WAN control mode	This error syslog is generated when SD-WAN Edge virtual machine is instantiated on an unsupported hypervisor	vip-vdaemon	Please check SD-WAN documentation on which all hypervisors are supported for SD-WAN mode

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
VDAEMON-5-CONTROL_CONN_STATE_CHANGE	5-Notice	Control connection to [chars] [chars] (TLOC: [chars]/[dec]/[chars] via [chars]) is [chars]	This notice syslog is generated when control connection to Cisco SD-WAN Validator, Controller or Manager goes down or comes back up	vip-vdaemon	No action is required
VDAEMON-5-PEER_AUTH_FAILED	5-Notice	Auth failed for [chars] ([chars]), reason: [chars]. Control connection attempt via [chars] (color: [chars])	This notice syslog is generated when control connection to peer device (Cisco SD-WAN Validator, Manager or Controller) cannot be established due to various reasons	vip-vdaemon	Please refer to [illegible] for troubleshooting control connection failures
VDAEMON-6-DOMAIN_ID_CHANGED	6-Information	Domain id changed from [dec] to [dec] via config	This info syslog is generated when domain-id is changed via config	vip-vdaemon	No action is required

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
VDAEMON-6-IPSEC_REKEY	6-Information	IPSec SA [chars] rekey done for tunnel established via [chars] (color: [chars])	This info syslog is generated when auto/manual IPSEC rekey is initiated for tunnels established over a WAN interface	vip-vdaemon	No action is required
VDAEMON-6-ORG_NAME_CHANGED	6-Information	Organization name changed from [chars] to [chars]	This info syslog is generated when organization name is changed via config	vip-vdaemon	No action is required
VDAEMON-6-SITE_ID_CHANGED	6-Information	Site id changed from [dec] to [dec] via config	This info syslog is generated when site-id is changed via config	vip-vdaemon	No action is required
VDAEMON-6-SYSTEM_IP_CHANGED	6-Information	System IP changed from [chars] to [chars] via config	This info syslog is generated when system IP is changed via config	vip-vdaemon	No action is required

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
VDAEMON-6-SYSTEM_LICENSE_MISMATCH	6-Information	There is a license association mismatch. [chars] instance is being associated to [chars] license	This info syslog is generated when there is a license association mismatch. Pay As You Go instance cannot be associated with Bring Your Own instance or vice versa	vip-vdaemon	Contact Cisco TAC for assistance

Facility-Severity-Mnemonic	Severity Name	Message	Message Explanation	Component	Recommended-Action
VDAEMON-6-TLOC_IP_CHANGE	6-Information	Control connection TLOC changed from [chars]:[dec] to [chars]:[dec]	This info syslog is generated when TLOC IP and port changes as a result of static configuration change, DHCP renewal or when the edge device learns about public IP/port via Cisco SD-WAN Catalyst validator (which behaves as STUN server in such cases)	vip-vdaemon	No action is required
VDAEMON-6-VMANAGE_CONNECTION_PREF_CHANGED	6-Information	vManage connection preference for interface: [chars] (color: [chars]) changed to [dec]	This info syslog is generated when vmanage connection prefernce value for a WAN interface is changed via config	vip-vdaemon	No action is required

Facility-Severity-Mnemonic	Severity Warning	Message	Message Explanation	Component	Recommended-Action
VEMAN-3-BIND_FAILED	3-Error	Alarm [chars]: [chars]: [chars]	Unable to bind a socket to the EIS port. Failed to create a socket to listen for an EIS connection. Could not bind to the UDP port.	iosxe-hostmgr	Check the configuration of the EIS proxy.
VEMAN-3-CEM_CONNECTION_LOST	3-Error	Alarm [chars]: [chars]: [chars]-[chars]:[dec]	CEM connectivity Lost. An active CEM connection to CBR8 CEM Mangement IP was lost.	iosxe-hostmgr	Check QAM IP and hostname in CEM server GUI. Check connectivity between PME Management IP and CEM IP address. Verify QAM Management IP configuration in CEM. Verify QAM hostname matches in CEM
VEMAN-3-CHANNEL_CLOSE_PEER	3-Error	Alarm [chars]: [chars]: [chars]	The peer EIS has closed the communication channel. VEMAN has received a channel close message from the EIS	iosxe-hostmgr	Check the status of the external EIS.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
VEMAN-3-CHANNEL_ERROR	3-Error	Alarm [chars]: [chars]: [chars]	Connection to ECMG has an error, so services cannot be scrambled. An external (DVB) ECMG or internal (PME or PK) ECMG error has occurred	ios-hostmgr	For external (DVB) ECMG, review the configuration parameters. For internal (PME or PK) ECMG, a software error has occurred. 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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
VEMAN-3-CLEAR_EXTENSION	3-Error	Alarm [chars]: [chars]: [chars]	Either service is not present, so there are no components to scramble, or there is a problem with ECM retrieval from ECMG or with CW retrieval. This is likely an input stream issue.	iosxe-hostmgr	Confirm that the service is present on the input and ECMG is properly connected.
VEMAN-3-CONNECTION_LOST	3-Error	Alarm [chars]: [chars]: [chars]	Unable to connect to the peer EIS. Connection to the EIS has timed out or can not be established.	iosxe-hostmgr	Check the configuration and status of the external EIS.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
VEMAN-3-CP_EXTENSION_NO_COMP	3-Error	Alarm [chars]: [chars]: [chars]	The Service or PIDs are not present, so there are no components to scramble. This error most likely occured due to an input service not arriving properly which is likely either a problem in the input path or in the session create parameters.	iosxe-hostmgr	Confirm that the service is present on the input.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
VEMAN-3-CP_EXTENSION_NO_ECMS	3-Error	Alarm [chars]: [chars]: [chars]	The ECMG has not returned the requested ECMs, so the components can not be scrambled. An external (DVB) ECMG or internal (PME or PK) ECMG error has occurred.	iosxe-hostmgr	Confirm that the external (DVB) ECMG is connected and operating correctly, and that it is not overwhelmed with ECM requests. 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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=0 or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
VEMAN-3-ECMG_NO_CHANNEL_AVAILABLE	3-Error	Alarm [chars]: [chars]: [chars]	Cannot connect to ECMG, so services cannot be scrambled. An external (DVB) ECMG or internal (PME or PK) ECMG error has occurred	ios-host-mgr	For external (DVB) ECMG, review the configuration parameters. For internal (PME and PK) ECMG, a software error has occurred. 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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen, or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VEMAN-3-ECMG_REMOVE	3-Error	Alarm [chars]: [chars]: [chars]	Operator has removed and ECMG Proxy configuration with actively scrambled services. An external (DVB) ECMG or internal (PME or PK) ECMG error has occurred.	ios-xe-host-mgr	Re-add the ECMG Proxy configuration, so services can continue to be scrambled. 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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.html or contact your Cisco technical support representative and provide the representative with the gathered information.
VEMAN-3-EIS_REMOVE	3-Error	Alarm [chars]: [chars]: [chars]	An active EIS proxy has been removed. This error most likely occured due to a configuration change of the EIS Proxy.	ios-xe-host-mgr	An EIS Proxy with an active channel to an EIS has been removed and is no longer connected to the EIS.
VEMAN-3-FPGA_ALGO_MISMATCH	3-Error	Alarm [chars]: [chars]: [chars]	Raider FPGA scrambling algorithm mismatch detected	ios-xe-host-mgr	Confirm that the FPGA scrambling algorihm loaded in the linecard is aligned with configuration.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VEMAN-3-LED_REMOVE	3-Error	Alarm [chars]: [chars]: [chars]	The active LED EIS has been removed. This error most likely occured due to a configuration change of the LED.	iosxe-hostmgr	An LED with active sessions has been removed and is no longer connected to VEMAN.
VEMAN-3-PID_COULD_NOT_BE_ALLOCATED	3-Error	Alarm [chars]: [chars]: [chars]	Encryption requested an ECM PID from the Video process and did not receive one	iosxe-hostmgr	Confirm the service is present on input and does not exceed the maximum allowed input PIDs.
VEMAN-3-PME_CWIDX_MISMATCH	3-Error	Alarm [chars]: [chars]: [chars]	PME CWIndex mismatch detected because of Internal error.PME session may affected	iosxe-hostmgr	Restart the veman process of linecard, if process restart in configured
VGQI-2-REMOTE_SERVER_CONNECTED	2-Critical	LED : [dec], GQI connection to remote server [chars] from local IP [chars] succeeded. GQI version = [dec]	GQI connection is succeeded with remote VSRM	iosxe-hostmgr	Logging success scenario in syslog
VGQI-2-REMOTE_SERVER_DISCONNECTED	2-Critical	LED : [dec], GQI connection to remote server [chars] is terminated	GQI connection is terminated with remote VSRM	iosxe-hostmgr	Logging success scenario in syslog

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
VGQI-2-REMOTE_SERVER_DISCONNECTED_BY_PEER	2-Critical	LED : [dec], GQI connection to remote server [chars] termination request initiated peer	GQI connection is terminated with remote VSRM	iosxe-hostmgr	Logging success scenario in syslog
VGQI-2-RESOURCE_ALLOCATION_ERROR	2-Critical	VGQI Failed to allocate memory for [chars]. LED ID [dec]	LED process ran out of memory error. This is an internal software error	iosxe-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
VGQI-3-ANNOUNCE_EVENT_QUEUE_FULL	3-Error	Announce event queue is full. All previously existing events in the queue for server [chars] on LED [dec] were deleted.	Previously existing events in the queue were deleted due to the queue being full.	ios-sxe-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen, or contact your Cisco technical support representative and provide the representative with the gathered information.
VGQI-3-BW_EXCEED_LIMIT	3-Error	LED ID [dec], Bitrate [dec] for input source [chars] on slot [dec] exceeds the configured bitrate	Session bitrate exceeds the configured bitrate. This is a possible cBR8 provisioning error.	ios-sxe-hostmgr	Review the source and configured session bitrate and compare.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VGQI-3-SESSION_ID_MAPPING_ERROR	3-Error	VGQI Failed to map the internal session ID [dec] to a GQI session ID, LED ID [dec]	This is an internal software error	iosxe-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.html or contact your Cisco technical support representative and provide the representative with the gathered information.
VIPC-3-VIPC_SOCKET_BUFF_SIZE	3-Error	Failed to set the TCP buffer size on VIPC port [dec], FD [dec]	Failed to set the TCP buffer send/recv Q sizes on a VIPC port.	iosxe-hostmgr	Check for service impact.
VMAN-2-ACTIVATION_STATE	2-Critical	[chars] '[chars]' [chars] [chars]	The activation state of the named virtual service has changed as notified by Virt-manager.	vman	In the failed case, check Virt-manager's logs for the cause of the failure. In the successful case, this notification can be ignored.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-ALLOC_VIRT_INST_RCS	2-Critical	Virtual Service[chars]	A memory allocation request failed to allocate a data structure required to activate the virtual service.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-COMMIT_VIRT_INST_RCS	2-Critical	Virtual Service[chars]	The request to commit the resources required by the named virtual service failed.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-CPUSHARES_LIMIT	2-Critical	Virtual Service[chars]	The virtual service machine definition file is requesting more CPU shares than the system has available for virtual services.	vman	Deactivate any other virtual services to free up CPU share resources and activate this virtual service. If that does not address the problem, then enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-CPUTUNES_INTERNAL_ERROR	2-Critical	Virtual Service[chars]	Virt-manager and its associated infrastructure experienced an internal error.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-CPUTUNES_SHARES_LIMIT	2-Critical	Virtual Service[chars]	The virtual service machine definition file is requesting more CPU shares than the system has available for virtual services.	vman	Deactivate any other virtual services to free up CPU share resources and activate this virtual service. If that does not address the problem, then enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-CREATE_VIRT_INST_ENTRY	2-Critical	Virtual Service[chars]	The request to create a DB entry for the named virtual service failed.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-DEACT_FOR_ISSU	2-Critical	[chars] Max ([dec]s)	An ISSU event is pending. Any active VMs will be automatically deactivated to allow ISSU preprocessing to validate the environment. Any ISSU-deactivated VMs will be automatically restarted if the ISSU is cancelled.	vman	None. Allow the ISSU to continue and the VMs will restart when the ISSU completes; or cancel the ISSU and vman will automatically restart the VMs.
VMAN-2-DEFER_VIRT_INST_PROC	2-Critical	Virtual Service[chars]	The final activation processing failed to successfully defer.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-DISK_IMAGE_PATH	2-Critical	Virtual Service[chars]	The virtual service machine definition file contains an invalid disk image path for one of the disk devices. This may be a Harddisk, CDROM or USB storage device.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-FIND_VIRT_INST_ENTRY	2-Critical	Failed to find virtual service with id [dec] in the Virt-manager DB	The virtual service with the ID named could not be located in the Virt-manager DB.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-GENERAL_FAILURE	2-Critical	Virtual Service[chars]	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.	vman	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-GUESTSHELL_ENABLED	2-Critical	The guest shell has been enabled. The command '[chars]' may be used to access it, '[chars] destroy' to remove it.	Informs the user that the guest shell virtual service has been enabled (which is done by default).	vman	The user may use or remove the guest shell with the commands specified.
VMAN-2-HA_STATE	2-Critical	[chars] [chars] [chars] [chars]	VMAN tries to detect the role/slot of various nodes on HA events from the platform. If any of those event callbacks fail, this notification would be raised.	vman	In the failed case, check Virt-manager's logs for the cause of the failure. Check for the HA event error msg and root cause the same.
VMAN-2-HA_SWITCHOVER_STATE	2-Critical	[chars] [chars] [chars] [chars]	VMAN HA switchover state related messages for a virtual-service whilst it is being recovered on newly active RP after a HA switchover.	vman	In the failed case, check Virt-manager's logs for the cause of the failure. Check for the HA event error msg and root cause the same.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-HA_SYNC_ERR	2-Critical	[chars] '[chars]' [chars]	The ha-sync persistent storage disk for the virtual service cannot be watched for sync to standby RP.	vman	Collect the Virt-manager logs and scan them for the cause.
VMAN-2-HA_SYNC_THREAD_STATE	2-Critical	HA remote sychronize thread has failed and exited.	VMAN tries to remote sync the OVA repository to all online nodes using a separate thread. If that thread fails, this notification would be raised.	vman	In the failed case, check Virt-manager's logs for the cause of the failure. Check for the pthread error msg and root cause the same.
VMAN-2-INCONSISTENT_CPUTUNES_CONFIG	2-Critical	Virtual Service[chars]	The virtual service machine definition file is requesting invalid CPU tunes parameter.	vman	Use a different valid machine definition file for the virtual service. If the problem persists, then enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-INCONSISTENT_MEM_CONFIG	2-Critical	Virtual Service[chars]	The virtual service machine definition file is inconsistent in the specification of required memory via the &dt;memory> and &dt;boot-Memory> nodes.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-INSERT_VIRT_INST_ENTRY	2-Critical	Virtual Service[chars]	Inserting the named virtual service into the virtual service DB tracked by Virt-manager failed.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-INSTALL_FAILURE	2-Critical	Virtual Service[chars]	The installation of the virtual service failed.	vman	Enable the Virt-manager trace logs and repeat the installation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-INSTALL_LOG	2-Critical	[chars] [chars] [chars] [chars]	The installation log of the named virtual service, is to provide more information about long running operation, that could affect the control of CLI	vman	No action is required
VMAN-2-INSTALL_MEDIA_RETRY	2-Critical	VMAN, VM install media still unavailable.[chars]	The install media was not detected. Waiting for udev to complete install media (harddisk) detection.	vman	After VMAN exceeds the maximum retry limit, verify if install media (harddisk) is accessible and retry the installation again.
VMAN-2-INSTALL_STATE	2-Critical	[chars] '[chars]'[chars] [chars]	The installation state of the named virtual service has changed as notified by Virt-manager.	vman	In the failed case, check Virt-manager's logs for the cause of the failure. In the successful case, this notification can be ignored.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-INVALID_ACT_MSG	2-Critical	Virtual Service[chars]	The virtual service activate message was received, however, the data it contained could not be interpreted	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-INVALID_DEACT_MSG	2-Critical	Failed to process virtual service deactivate message	The virtual service deactivate message was received, however, the data it contained could not be interpreted	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-INVALID_PACKAGE	2-Critical	Virtual Service[chars]	The package definition file for the named virtual service has failed to be validated and the virtual service will not run	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause. The most likely cause would be that the package file has been corrupted during file transfer. The suggested action would be to redo the file transfer.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-INVALID_UNPROV_MSG	2-Critical	Failed to process virtual service unprovision message	The virtual service unprovision message was received, however, the data it contained could not be interpreted	vman	Enable the Virt-manager trace logs and repeat the activation followed by deactivation and then unprovision of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-MACHINE_TYPE_NOT_SUPPORTED	2-Critical	Virtual Service[chars]	The virtual service cannot be activated as the machine type specified is not supported	vman	Enable the support for the machine type and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-MACH_PARSE_FAILURE	2-Critical	Virtual Service[chars]	The named virtual service has an invalid parameter specified in the .xml file inside the .ova package	vman	Fix the .xml file inside the .ova package to have valid values. Then retry installing and activating it

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-MEMORY_LIMIT	2-Critical	Virtual Service[chars]	The virtual service machine definition file is requesting more memory than the system has available for virtual services.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-MEMORY_LIMIT_WARN	2-Critical	Virtual service ([chars])[chars] defines [dec] MB of Memory exceeding the maximum [dec] MB.	The virtual service machine definition file is requesting more memory for the specified profile, than the system has available for virtual services.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-MORETHANONE_CPUTUNES_CONFIG	2-Critical	Virtual Service[chars]	The virtual service machine definition file is requesting more than one CPU tunes parameter.	vman	Use a different valid machine definition file for the virtual service. If the problem persists, then enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
VMAN-2-MOVE_STATE	2-Critical	[chars] '[chars]' [chars] [chars]	The move of the core or log file of the named virtual service has as been successful or failed as notified by Virt-manager.	vman	In the failed case, check Virt-manager's logs for the cause of the failure. In the successful case, this notification can be ignored.
VMAN-2-NETWORK_CONFIG_ERROR	2-Critical	Virtual Service[chars]	A network configuration error has been detected for the named virtual service.	vman	No action is required
VMAN-2-PROCESS_PKG_DEF	2-Critical	Virtual Service[chars]	The virtual service package for the named virtual service has failed to be validated and the virtual service will not run.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-PROC_INT_LIST	2-Critical	Virtual Service[chars]	The interface list embedded in the activate request for the named virtual service could not be processed.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-REMOVE_VIRT_INST_ENTRY	2-Critical	Virtual Service[chars]	Removing the named virtual service from the virtual service DB tracked by Virt-manager failed.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-RESET_FORCE	2-Critical	Virtual Services non-recoverable reset command processed		vman	Once the command is entered and accepted, there is no recourse but to restart the system.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			A 'virtual service reset force' command has been entered and processed. This action initiates a cleanup of last resort. Occasionally a VM will get into an unrecoverable state that prevents it from activating but also from uninstalling. This is a rare event but when it happens the only resort may be to remove the .conf control file and reboot, which forces a cleanup of all previously installed VM files and artifacts. Note that once this		

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
			command is used, current VMs are considered to be in an unstable or unpredictable state, and all future install, uninstall, upgrade, and activation commands will be blocked.		
VMAN-2-RESIZE_OPER_STATE	2-Critical	Virtual service '[chars]' [chars][chars] to '[dec]' [chars]	VMAN attempts to resize various VM parameters like rootfs size, CPU share, memory if requested by user. Success/failure status messages for these resize operations are communicated by this syslog.	vman	In the failed case, check Virt-manager's logs for the cause of the failure. Check for the HA event error msg and root cause the same.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-RSYNC_STATE	2-Critical	[chars] [chars] [chars] [chars]	VMAN tries to remote sync the virtual-instance configuration file and the OVA repository to all online nodes. If rsync fails even after consecutive retries, this notification would be raised.	vman	In the failed case, check Virt-manager's logs for the cause of the failure. Check for the rsync error code and root cause the same.
VMAN-2-SET_VTX_ROMVAR_SPACE	2-Critical	Failed to set ROM monitor variable ENABLE_VTX: No space in table	Failed to set ENABLE_VTX ROM monitor variable due to no space in Monitor Variable Table.	vman	Verify number of entries in Monitor Variable Table.
VMAN-2-SET_VTX_ROMVAR_STRING	2-Critical	Failed to set ROM monitor variable ENABLE_VTX: Invalid string format: [chars]	Failed to set ENABLE_VTX rom monitor variable due to invalid string format.	vman	Verify format of string from error message.
VMAN-2-START_FAILED	2-Critical	Virtual Service[chars]	The named virtual service failed to start.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-UNINSTALL_ALL_VMS	2-Critical	All Virtual Services are being uninstalled [chars][chars] [chars]	All virtual services are being uninstalled by Virt-manager.	vman	Examine the reason given as to why all virtual services are being uninstalled for more information. If the reason indicated is due to some error condition, check Virt-manager's logs for the cause of the failure.
VMAN-2-UPGRADE_LOG	2-Critical	[chars] [chars] [chars] [chars]	The upgrade log of the named virtual service, is to provide more information about long running operation, that could affect the control of CLI	vman	No action is required
VMAN-2-VCPU_INVALID	2-Critical	Virtual Service[chars]	The virtual service machine definition file is requesting invalid VCPU value.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-VCPU_LIMIT	2-Critical	Virtual Service[chars]	The virtual service machine definition file is requesting more VCPUs than the system has reserved for virtual services.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-VIRT_INST_CRIT	2-Critical	VIRTUAL SERVICE [chars] LOG: [chars]	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.	vman	No action is required
VMAN-2-VIRT_INST_DISK	2-Critical	Virtual Service[chars]	The virtual service requires Disk Storage in excess of the Free Disk Storage available to virtual services.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-VIRT_INST_INTERFACE	2-Critical	Virtual Service[chars]	The number of configured virtual port group interfaces must match the number of Ethernet Network Interfaces defined in the machine definition file	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-VIRT_INST_LOG_UNTHROTTLE	2-Critical	Failed to unthrottle the log for virtual service [chars]	The named virtual service had sent overwhelming sys log messages and its log had been throttled as a result, but system has failed to unthrottle it for some reason.	vman	For debugging collect the virt-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-2-VIRT_INST_MEMORY	2-Critical	Virtual Service[chars]	The virtual service requires physical memory in excess of the free memory available to virtual services.	vman	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.
VMAN-2-VIRT_INST_MGMT_INTERFACE	2-Critical	Virtual service [chars] has no management interface defined but it is configured in CLI.	A management interface is configured but none is defined.	vman	Deactivate the virtual service, remove the management interface configuration CLI, and reactivate the virtual-service.
VMAN-2-VIRT_INST_STATE	2-Critical	Virtual Service[chars]	The named virtual service has failed. It is no longer running either because the guest OS has failed, the guest OS has shut down the machine or the emulator has failed.	vman	An attempt at restarting the virtual service can be made from the IOS configuration by doing a no activate/activate. For debugging collect the Virt-manager logs and scan them for the cause.
VMAN-3-PSS_ERR	3-Error	Purpose: [chars], URI: [chars], errcode: [dec]	Persistent Storage Service handling error	vman	Collect the Virt-manager logs and scan them for the cause.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-3-PSS_SNAPSHOT_ERR	3-Error	Source URI: [chars], Destination URI: [chars], errcode: [dec]	Persistent Storage Service snapshot error	vman	Collect the Virt-manager logs and scan them for the cause.
VMAN-3-SDWRAP_ERR	3-Error	Description: [chars], errcode: [dec]	Debug infrastructure error	vman	Collect the Virt-manager logs and scan them for the cause.
VMAN-3-VIRT_INST_ERR	3-Error	VIRTUAL SERVICE [chars] LOG: [chars]	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.	vman	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-4-HA_SYNC_NEEDED	4-Warning	If using the guest shell, please use 'guestshell sync' if you want to preserve state on standby in case of supervisor switchover	Message notifying user that he needs to manually synchronize the Virtual service contents to standby supervisor in order to preserve these contents in case of a supervisor switchover. Currently only applicable to the guest shell	vman	User can type the 'guestshell sync' command on active supervisor to synchronize it's contents to the standby supervisor if desired.
VMAN-4-PACKAGE_SIGNING_LEVEL_CHANGED	4-Warning	Package signing level changed from allow '[chars]' to allow '[chars]'	The package certificate signing level global setting has been changed via configuration under the virtual-service global sub-mode.	vman	Ensure that this setting has been changed as expected by an authorized user.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-4-UPDATE_WARNING	4-Warning	Virtual Service[chars]	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.	vman	No action is required
VMAN-4-VIRT_INST_WARN	4-Warning	VIRTUAL SERVICE [chars] LOG: [chars]	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.	vman	No action is required
VMAN-4-VIRT_SERV_LIBVIRTD_WARN	4-Warning	VMAN not able to connect to the libvirt daemon after '[dec]' attempts	VMAN has been unable to connect to the libvirt daemon. Virtualization services will not be available until this connection is made.	vman	Collect the logs produced by 'show virt tech'

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-4-WATCHDOG_TIMER	4-Warning	[chars] '[chars]' [chars] [chars]	The watchdog timer configured for the named virtual service has expired.	vman	Check any logs produced by the virtual service to determine the cause.
VMAN-5-AUX	5-Notice	Virtual Service[chars]	The AUX login to a virtual service may allow the user access to system functions that may not have been tested or may interact with the system in unintended ways. Use with caution.	vman	No action is required
VMAN-5-PACKAGE_SIGNING_LEVEL_ON_INSTALL	5-Notice	Package '[chars]' for service container '[chars]' is '[chars]', [chars] '[chars]'	A service container software package with the certificate signing level described is being installed.	vman	Take note of the service container and software package. Verify the software package is expected to be (un)signed as described and has the appropriate contents. Uninstall the package if unsure of the package origins.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-5-PERMISSION_DENIED	5-Notice	Virtual Service '[chars]' is not owned by client IOSd	An attempt was made to modify a virtual-service that is not owned by by the client. The request was rejected.	vman	No action is required.
VMAN-5-VIRT_INST	5-Notice	LOG FROM VIRTUAL SERVICE [chars]: [chars]	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.	vman	No action is required
VMAN-5-VIRT_INST_NOTICE	5-Notice	VIRTUAL SERVICE [chars] LOG: [chars]	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.	vman	No action is required

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VMAN-6-VIRT_INST_INFO	6-Information	VIRTUAL SERVICE [chars] LOG: [chars]	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.	vman	No action is required
VMAN-7-VIRT_INST_DEBUG	7-Debug	VIRTUAL SERVICE [chars] LOG: [chars]	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.	vman	No action is required

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
VRSA-3-RSA_KEY_ERROR	3-Error	Failed to retreive keypair [dec]	Failed to retrieve keypair. This is an internal software error.	iosxe-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.
VSESS-2-RESOURCE_ALLOCATION_ERROR	2-Critical	VSESS Failed to Allocate memory, Led id [dec]	This is an internal software error	iosxe-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VSESS-3-INPUT_STREAM_FAILURE	3-Error	Input Stream Failure for Source [chars], LED [dec], Slot: [dec]	Input stream failure has been detected. This is possibly due to input interface down or network issue	iosxe-hostmgr	Check the input source, or initiate a SSO
VSESS-3-PMT_MISSING_ERROR	3-Error	PMT is missing for program [dec], session ID [dec], LED [dec], Slot [dec]	PMT is missing from input stream.	iosxe-hostmgr	Check the input source for missing PMT, and check for service impact
VSESS-3-PMT_MISSING_EVENT_INVALID_PROGRAM_NUM	3-Error	PMT missing event from vidman, invalid program number [dec], session ID [dec], LED [dec], Slot [dec]	PMT missing is detected.	iosxe-hostmgr	Check input stream for missing PMT
VSESS-3-PROG_NUM_CONFLICT	3-Error	Program number [dec] is already used by session [dec] on line card slot [dec]. Session creation failed for session ID [dec]	Linecard detected a program number conflict on session creation.	iosxe-hostmgr	Check for service impact. Delete the old session and recreate the new session.
VSESS-3-STREAM_ERROR	3-Error	[dec] Slot: [dec] [chars]	Stream error set or clear has been detected. This is possible due to faulty stream or due to packet loss in Network.	iosxe-hostmgr	Review the source and do the source switchover (in case of Multicast) if there is any video impact seen.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
VSESS-3-VIPC_BUFFER_FULL	3-Error	Unable to send IPC msg from led [dec] to line card [dec]. IPC buffer full.	Detect IPC buffer full. Application may send too many IPC messages.	iosxe-hostmgr	Reduce messages such as reduce SNMP queries, or number of sessions.
VSESS-4-QAM_ERROR	4-Warning	Physical QAM number [dec] or QAM channel [chars] is oversubscribed	Possible QAM oversubscription. Possible cBR8 provisioning eror. Check QAM/session configuration. Check: show controllers integrated-cable x/y/z all.	iosxe-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=Quick or contact your Cisco technical support representative and provide the representative with the gathered information.
VSESS-5-PROGRAM_CONFLICT_RECOVERED	5-Notice	A program number conflict was resolved by LED [dec]. Old session [dec] was deleted, new session [dec] has been created on line card slot [dec] for program number [dec]	Linecard detected a program number conflict on session creation.	iosxe-hostmgr	Software auto recovered from the error by deleting the old session and recreated the new session.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
VSESS-5-VIDEO_SOURCE_CHANGED	5-Notice	Video Multicast Input Source has switched to [chars], led: [dec], slot [dec]	Video Input Source has switched to the next source due to input stream failure.	iosxe-hostmgr	Check service impact, and check the failed input source
VSESS-6-INPUT_STREAM_ACTIVE	6-Information	Input Stream has become active for Source [chars], LED [dec], Slot: [dec]	Input stream has become active again	iosxe-hostmgr	Informational message, no action needed
VSESS-6-PMT_RESUMED	6-Information	PMT is resumed on input stream for program [dec], session ID [dec], LED [dec], Slot [dec]	PMT is resumed on input stream.	iosxe-hostmgr	Informational message, no action needed
VTBL-2-RESOURCE_ALLOCATION_ERROR	2-Critical	VTBL Failed to Allocate memory, Led id [dec]	This is an internal software error	iosxe-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VTBL-3-BW_EXCEED_LIMIT	3-Error	LED ID [dec], Bitrate [dec] for input source [chars] on slot [dec] exceeds the configured bitrate	Session bitrate exceeds the configured bitrate. This is a possible cBR8 provisioning error.	iosxe-hostmgr	Review the source and configured session bitrate and compare.
VTBL-3-CA_BLOB_DECODE_ERROR	3-Error	Encryption error reported for session [dec]	Encryption error reported for video session. This is a possible cBR8 provisioning error.	iosxe-hostmgr	Review the encrypted video session configuration parameters. Check the CA data in the stream.
VTBL-3-IGMP_JOIN_FAILURE	3-Error	Video sessions for LED [dec] has failed to join multicast source [chars] on linecard [dec]	IGMP Join failure for LED.	iosxe-hostmgr	Review the input source configuration. This error most likely occured due to no input traffic or network issue
VTBL-3-MCAST_JOIN_ATTEMPTED	3-Error	All backup multicast sources [chars] for LED [dec] on linecard [dec] have been attempted.	IGMP Join failure for all backup sources on LED.	iosxe-hostmgr	Review the input source configuration. This error most likely occured due to no input traffic or network issue
VTBL-3-PID_CONFLICT	3-Error	Conflicting PID [dec] reported for session [dec]. qam = [dec]	PID conflict reported for video session. This is a possible cBR8 provisioning error.	iosxe-hostmgr	Review the table based video session configuration parameters. Check for duplicated PID.

Facility-Severity-Mnemonic	Severity	Message	Explanation	Component	Recommended-Action
VTBL-3-PROG_NUMBER_CONFLICT	3-Error	Conflicting program number [dec] reported for session [dec]. qam = [dec]	Program number conflict reported for video session. This is a possible cBR8 provisioning error.	iosxe-hostmgr	Review the table based video session configuration parameters. Check for duplicated program number.
VTBL-3-SESSION_CREATE_FAILED	3-Error	Failed to create video session [dec] on the line card. error = [dec]	Failed to create video session on the line card. This is a possible cBR8 provisioning error.	iosxe-hostmgr	Review the table based video session configuration parameters
VTBL-3-SESSION_DELETE_FAILED	3-Error	Failed to delete video session [dec] on the line card. error = [dec]	Failed to delete video session on the line card. This is a possible cBR8 provisioning error.	iosxe-hostmgr	Review the table based video session configuration parameters
VTBL-3-SESSION_UPDATE_FAILED	3-Error	Failed to update video session [dec] on the line card. error = [dec], oper = [dec]	Failed to update video session on the line card. This is a possible cBR8 provisioning error.	iosxe-hostmgr	Review the table based video session configuration parameters

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VTBL-3-VIDEO_IN_INIT_FAILURE	3-Error	Input source initialization failed on slot [dec]. Source [chars], rc = [chars]\n	Video input session initialization failed. This is a possible cBR8 provisioning error.	iosxe-hostmgr	Check the LED configuration on the RP and if the problem persists continue to the next step. 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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.html or contact your Cisco technical support representative and provide the representative with the gathered information.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
VTBL-3-VIDEO_OUT_INIT_FAILURE	3-Error	output session iniialization failed on LC. Output session id [dec], rc = [chars]\n	Video output session initialization failed. This is a possible cBR8 provisioning error.	iosxe-hostmgr	Check the LED configuration on the RP and if the problem persists continue to the next step. 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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen?template=1 or contact your Cisco technical support representative and provide the representative with the gathered information.
VTBL-3-VIDEO_TS_INVALID	3-Error	PSI error found in input source [chars] on slot [dec]	PAT/PMT built failure due to invalid input stream	iosxe-hostmgr	Review the input source configuration and video resources.
VTBL-6-SOURCE_SWITCHOVER	6-Information	Multicast redundancy is in use. Video sessions on LED [dec] is switching to a backup source [chars] on linecard [dec]	Source switchover is detected for LED %d.	iosxe-hostmgr	Review the input source configuration. This error most likely occured due to no input traffic or network issue

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
VUTIL-2-INIT_FAILED	2-Critical	Video VUTIL process initialization failed in [chars]	Initialization of the Video VUTIL process failed. This is an internal software error.	iosxe-hostmgr	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: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/tac/caseopen.html or contact your Cisco technical support representative and provide the representative with the gathered information.
VUTIL-3-VIDEO_MGMT_NETWORK_CONFIG_SET_FAILED	3-Error	Video Management network (VPG) Failed. Reason: [chars]	Video management network failed. This is a possible CBR provisioning error	iosxe-hostmgr	Check the failed config and correct as required. Re-issue the config command
VUTIL-3-VIDEO_MGMT_NETWORK_CONFIG_SET_TDL_FAILED	3-Error	Video Management network (VPG) Failed. Reason: [chars]	Video management network failed. This is a possible CBR provisioning error	iosxe-hostmgr	Check the failed config and correct as required. Re-issue the config command
WDAD_TRACE_MESSAGE-3-WLC_REGULATORY_FILE_PROCESS_ERR	3-Error	Error : [chars]	Error in regulatory file processing	ewlc-rrm	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
WCDB_TRACE_MESSAGE-4-WLC_REGULATORY_FILE_PROCESS_WARN	4-Warning	Warning: [chars]	Regulatory file processing warning message	ewlc-rrm	LOG_STD_ACTION
WCDB_TRACE_MESSAGE-5-WLC_REGULATORY_FILE_PROCESS_NOTICE	5-Notice	Notice : [chars]	Regulatory file processing notice message	ewlc-rrm	LOG_STD_ACTION
WEBSERVER-5-CONNECTION_FAILED	5-Notice	connection failed from host [chars] - [chars]	Failure reason for SSL connection	ng-web-infra	No action is required
WEBSERVER-5-LOGIN_FAILED	5-Notice	Login Un-Successful from host [chars] by user '[chars]'	Login unsuccessful when user/password is invalid	ng-web-infra	No action is required
WEBSERVER-5-LOGIN_PASSED	5-Notice	Login Successful from host [chars] by user '[chars]'	Login successful	ng-web-infra	No action is required
WEBSERVER-5-MAX_CONNECTION_REACHED	5-Notice	HTTP server maximum connection reached '[dec]'	Maximum HTTP connection reached.	ng-web-infra	No action is required
WEBSERVER-5-SESS_LOGOUT	5-Notice	Successfully logged out from host [chars] by user '[chars]'	Logout successful	ng-web-infra	No action is required
WEBSERVER-5-SESS_TIMEOUT	5-Notice	Session timeout from host [chars] by user '[chars]'	Session Timeout	ng-web-infra	No action is required
WEBSOCKET_SPACES-3-WS_ONBOARDING_DISCONNECTING	3-Error	Onboarding websocket to cisco-spaces is disconnecting for reason:[chars]	Onboarding websocket to cisco-spaces is disconnecting	spaces-oa	If this message occurs, it means onboarding websocket to cisco-spaces is disconnecting

Facility-Severity-Mnemonic	Severity-Meaning	Message	Message-Explanation	Component	Recommended-Action
WEBSOCKET_SPACES-3-WS_ONBOARDING_ERR	3-Error	Onboarding websocket to cisco-spaces could not be established for error:[chars]	Onboarding websocket to cisco-spaces could not be established due to errors	spaces-oa	If this message occurs, it means onboarding websocket to cisco-spaces could not be established due to errors
WEBSOCKET_SPACES-6-WS_ONBOARDING_DISCONNECTED	6-Information	Onboarding websocket to cisco-spaces is disconnected	Onboarding websocket to cisco-spaces is disconnected	spaces-oa	If this message occurs, it means Onboarding websocket to cisco-spaces is disconnected
WEBSOCKET_SPACES-6-WS_ONBOARDING_SUCCESS	6-Information	Onboarding websocket to cisco-spaces is successfully established	Onboarding websocket to cisco-spaces is successfully established	spaces-oa	If this message occurs, it means onboarding websocket to cisco-spaces is successfully established
WEBUI-6-INSTALL_OPERATION_INFO	6-Information	User: [chars], Install Operation: [chars] [chars]	This message is used to indicate that an install operation is being performed via WebUI	web-ui-wireless	No action required. This is not an error, it is a log message that an install operation is being performed via WebUI
WLANMGR_TRACE_MESSAGE-2-EWLC_WLANMGR_CRIT_ERR	2-Critical	Wlanmgr Error: [chars]	Wlanmgr ewlc Error Message.	iosxe-binos-utils	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
WLANMGR_TRACE_MESSAGE-2-EWLC_WLANMGR_CRIT_ERR_TRACE	2-Critical	WLANMGR Error: [chars]	WLAN configs are not getting pushed to Access points. Make a note of any recent changes made to the network or the device configuration which may have triggered this and proceed to the suggested action.	iosxe-binos-utils	Copy the error message exactly as it appears on the console or in the system log. Open a case with the Technical Assistance Center via the Internet http://www.cisco.com/cisco/web/support/index.html or contact your Cisco technical support representative and provide the representative with the gathered information. It is suggested to collect archive traces and live process core to analyse the error.
WLANMGR_TRACE_MESSAGE-3-EWLC_WLANMGR_SCHEDULED_WLAN_DISABLE	3-Error	WLANs associated with policy profile [chars] are disabled by calendar profile [chars]	Wlanmgr scheduled WLAN disable message.	iosxe-binos-utils	LOG_STD_ACTION
WLANMGR_TRACE_MESSAGE-3-EWLC_WLANMGR_SCHEDULED_WLAN_ENABLE	3-Error	WLANs associated with policy profile [chars] are enabled by calendar profile [chars]	Wlanmgr scheduled WLAN enable message.	iosxe-binos-utils	LOG_STD_ACTION
WLANMGR_TRACE_MESSAGE-4-EWLC_WLANMGR_WARN	4-Warning	Wlanmgr Warning: [chars]	Wlanmgr ewlc Warning Message.	iosxe-binos-utils	LOG_STD_ACTION
WNCD_ERROR_MESSAGE-3-WNCD_CONFIG_DONE_IPC_FAILURE	3-Error	Error: IPC failure to notify wncmgrd on config_done event.	Critical notification to allow AP join	ewlc-app-infra	LOG_STD_ACTION

Facility-Severity-Mnemonic	Severity Meaning	Message	Message Explanation	Component	Recommended-Action
WNCD_EWC_ERRMSG-6-INSTALL_CLEANUP_INFO	6-Information	INSTALL cleanup after switchover: [chars]	General EWC WNCD message	ewcap-image	LOG_STD_ACTION
WNCMGRD_ERROR_MESSAGE-3-BULK_SYNC_FAIL	3-Error	Error: Bulk sync not complete. Reloading the WLC!	Switchover happened before bulk sync is complete!	ewlc-ha	LOG_STD_ACTION
WNCMGRD_ERROR_MESSAGE-3-HA_PAIR_ERROR	3-Error	Error: Number of wncd instances mismatched between active and standby; HA function will not function correctly.	Resource provision is different on active and standby	ewlc-ha	LOG_STD_ACTION
WSA_ICAP_MESSAGE-3-EWLC_WSA_ICAP	3-Error	%% Error: ICap: [chars]	General ewlc ICap config failure	iosxe-bincos-utils	LOG_STD_ACTION
WUILOGIN-2-AUTHENTICATION_SYSTEM_FAILED	2-Critical	WebUI standalone authentication process failed. Reason: [chars]	During the id and password validation phase of the wuilogin access module authentication attempt, an exception occurred. This message usually occurs as a result of a failure of the underlying PAM authentication module.	iosxe-bincos-utils	Note the time of the error and check the web user interface log (wuilogin-*.log) for additional information on why the attempt to access the web user interface failed.

Facility-Severity-Mnemonic	Severity	Message	Message Explanation	Component	Recommended-Action
WUILOGIN-2-INITIALIZATION_FAILED	2-Critical	WebUI standalone login initialization failed.	The attempt to access the web user interface using the wuilogin access module failed. The wuilogin access module is used to authenticate web user interface access only when the IOS integrated webserver, which is enabled using the ip http server command, or the IOS process is down or disabled.	ios-ui-infra	Note the time of the error and check the web user interface log (wuilogin-*.log) for additional information on why the attempt to access the web user interface failed.

Additional References

Technical Assistance

When the recommended action of an error message advises that you contact Cisco technical support, open a case with the Cisco Technical Assistance Center (TAC).

Description	Link
The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies. To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds. Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.	https://www.cisco.com/c/en/us/support/index.html

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN THE INFORMATION PACKET THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT YOUR CISCO REPRESENTATIVE FOR A COPY.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

NOTWITHSTANDING ANY OTHER WARRANTY HEREIN, ALL DOCUMENT FILES AND SOFTWARE OF THESE SUPPLIERS ARE PROVIDED “AS IS" WITH ALL FAULTS. CISCO AND THE ABOVE-NAMED SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

All printed copies and duplicate soft copies of this document are considered uncontrolled. See the current online version for the latest version.

Cisco has more than 200 offices worldwide. Addresses and phone numbers are listed on the Cisco website at www.cisco.com/go/offices.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: https://www.cisco.com/c/en/us/about/legal/trademarks.html. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1721R)

© 2025 Cisco Systems, Inc. All rights reserved.

Americas Headquarters
Cisco Systems, Inc.
San Jose, CA 95134-1706
USA

Asia Pacific Headquarters
CiscoSystems(USA)Pte.Ltd.
Singapore

Europe Headquarters
CiscoSystemsInternationalBV
Amsterdam,TheNetherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.