



Cisco ASR 900 Series Aggregation Services Routers – System Messages Guide

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Overview of System Messages

Use this document together with the tools and utilities that are available on Cisco.com on this page:

<http://www.cisco.com/c/en/us/support/index.html>

- Cisco Technical Assistance Center (TAC): <https://mycase.cloudapps.cisco.com/case>
- Bug Search Tool link: <https://bst.cloudapps.cisco.com/bugsearch/>

Note: When contacting TAC, please have available the nonzipped, plain-text (.txt) output of the show logging and show tech-support commands, as well as any pertinent troubleshooting logs.

System messages can be grouped into these categories:

- System Event Messages—Describe the system and error messages that are generated for events related to the Cisco platform, and its hardware and software components.

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

`%FACILITY-SUBFACILITY-SEVERITY-MNEMONIC: Message-text`

System error messages contain the following components:

- FACILITY is a code indicating the platform or other component that is generating the message.
- SEVERITY is a number that reflects the significance of the error message. All error messages have a Cisco severity number that ranges from 0 to 7. The lower the number, the more serious the situation. This table describes the possible severity levels and their meanings.

Cisco Level	Class	Description
0	Emergency	The system has become unusable and requires immediate attention. This problem might also be affecting other parts of the network.
1	Alert	Some type of system or connection failure has occurred and requires immediate attention.
2	Critical	An error occurred that requires immediate attention to avoid system or connection failure.
3	Error	An error condition occurred that requires attention to resolve. Failure to address this problem will result in some type of system or connection failure in the near future.

Cisco Level	Class	Description
4	Warning	A condition occurred that indicates attention is needed in near future to avoid potential problems. Failure to address this problem could result in some type of system or connection failure later on.
5	Notice	A situation occurred that is normal but is significant enough that system administrators might want to notice.
6	Informational	An information message that might or might not be significant to the system administrators.
7	Debug	Messages that appear only while debugging is turned on.

- MNEMONIC is a string that uniquely identifies the error message. Error messages are usually organized and referred to by their mnemonic value.
- The Message-text is a string that provides details about the particular error. This string can include specifics about cable interface, IP or MAC addresses, and other information. In this document, the specific information is presented by variable fields that are indicated by square brackets ([]). A decimal number, for example, is represented as [dec].

System Messages Description

B

BACKWALK

```
%BACKWALK-2-TOO_MANY_DEPENDENTS : UEA OCE backwalk aborted -too many dependents
```

Explanation Too many dependent objects (> 200k) were encountered during backwalk from an OCE chain object

Recommended Action Please reduce the number of IGP routes below 200k.

BCM_BFD

```
%BCM_BFD-3-BCM_BFD_CREATE_FAIL : BFD endpoint create failed for ld [dec] on asic [dec]
```

Explanation BCM BFD endpoint create failed

Recommended Action Please collect nile mgr and uea mgr pman logs from shell

```
%BCM_BFD-3-BCM_BFD_DELETE_FAIL : BFD endpoint create failed for ld [dec] on asic [dec]
```

Explanation BCM BFD endpoint delete failed

Recommended Action Please collect nile mgr and uea mgr pman logs from shell

B

BCM_INIT

```
%BCM_INIT-3-BCM_KBP_INIT_APPL_FAIL : KBP Application INIT Failure on asic [dec]
```

Explanation KBP appl initialation failed during the BCM init

Recommended Action Please collect nile mgr and uea mgr pman logs from shell

```
%BCM_INIT-3-BCM_KBP_INIT_ILKN_FAIL : KBP ILKN INIT Failure on asic [dec]
```

Explanation KBP ilkn initialation failed during the BCM init

Recommended Action Please collect nile mgr and uea mgr pman logs from shell

BCM_TRAPS

```
%BCM_TRAPS-2-BCM_SNOOP_CREATE_FAIL : Snoop command create failed for cpuq [dec]
```

Explanation BCM Snoop command create failed

Recommended Action Please collect nile mgr and uea mgr pman logs from shell

BIPC

```
%BIPC-3-BIPC_PERFORMANCE : buffer size request [int] failed
```

Explanation An internal buffer allocation has failed.

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

BIPCMGR

```
%BIPCMGR-3-INVALID_TDL_ERROR_ON_MARSHAL : TDL epoch error on marshal [dec] unexpected: [chars]
```

Explanation 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.

Recommended Action This is unexpected. Report this to Cisco TAC

BOOT

```
%BOOT-0-APP_STARTFAILCRIT : Failed to launch a critical process [chars]
```

Explanation A process important to the chassis has failed.

Recommended Action 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-DRV_INITFAIL : [chars] driver failed to initialize properly
```

Explanation A kernel driver that is critical to the functioning of the system failed to initialize properly.

Recommended Action 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 : Failed to load driver [chars] ( [chars] )
```

Explanation A kernel driver that was critical to the functioning of the system failed to load.

Recommended Action 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 : Failed to launch process [chars]
```

Explanation A process that does not affect the forwarding of network traffic failed to start.

Recommended Action 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.

```
%BOOT-3-BOOTTIME_INCOMPATIBLE_SW_DETECTED : Incompatible software detected. Details:  
[chars]
```

Explanation Incompatible software is detected on target fru/chassis.

Recommended Action Upgrade manually or check auto-upgrade configuration.

```
%BOOT-3-BOOTTIME_SMU_MISSING_DETECTED : SMU file [chars] missing and system impact  
will be unknown
```

Explanation SMU file not found during bootup.

Recommended Action System will be running without the fix from the SMU

B

```
%BOOT-3-BOOTTIME_SMU_RUN_CORRECTION_FAILED : Failed to correct the SMU mismatch between the running version on active and [chars]. Pls abort the smu installation using 'install abort'
```

Explanation The system tried to recover from the mismatch, but failed. Engineer intervention is required

Recommended Action Get the 'show install log' and the btrace logs from active and standby

```
%BOOT-3-BOOTTIME_SMU_SYNC_FAILED : Failed to copy the SMUs to switch [chars]. Reload cancelled and switch will be declared incompatible
```

Explanation SMU sync failed on newly joined switch.

Recommended Action Switch with mismatch will be declared incompatible. Check the space on the remote switch. Check whether the file is present on active.

```
%BOOT-3-DUAL_BOOT_MEMORY : Dual IOS boot indicated in ROMMON ([chars]), unavailable on [chars] RP
```

Explanation Running two IOS instances on the same RP is unavailable on route-processors with insufficient memory

Recommended Action Unset the specified ROMMON variable or increase the memory on the route-processor.

```
%BOOT-3-EXT_ISSU_CHK_FAILED : 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 re-set.
```

Explanation 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 standby is being reset.

Recommended Action 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 : failed to get [chars] from flash
```

Explanation Property not populated.

Recommended Action No user action is necessary. This is informative message.

```
%BOOT-3-PARTIAL_CORE_CLEANUP_FAILURE : Partial core clean up failed for [chars]: [chars]
```

Explanation During RP boot, a failure occurred cleaning up incomplete core files.

Recommended Action Please check the router file systems.

```
%BOOT-5-BOOTTIME_SMU_MISMATCH_DETECTED : SMU mismatch from active detected. SMUs will be copied and switch [chars] will be reloaded
```

Explanation SMU mismatch found on newly joined switch.

Recommended Action Switch with mismatch will be reloaded

```
%BOOT-5-BOOTTIME_SMU_RUN_MISMATCH_DETECTED : Running SMU mismatch from active
dectected. System will try to correct it, switch [chars] will be reloaded
```

Explanation Running version of SMU mismatch found on newly joined switch.

Recommended Action Stack will try to correct itself.

```
%BOOT-5-BOOTTIME_SMU_TEMP_ACTIVE_DETECTED : SMU file [chars] active temporary... SMU
commit is pending
```

Explanation SMU file is active temporary and 'install commit' needs to be run to make it permanent. Else reload without commit will deactivate this SMU.

Recommended Action Execute 'install commit' before reload to make activate permanent.

```
%BOOT-5-BOOTTIME_SMU_TEMP_DEACTIVE_DETECTED : SMU file [chars] deactivate temporary...
SMU commit is pending
```

Explanation SMU file is deactivate temporary and 'install commit' needs to be run to make it permanent. Else reload without commit will active this SMU again.

Recommended Action Execute 'install commit' before reload to make deactivate permanent.

```
%BOOT-6-APP_START : The process [chars] has started
```

Explanation The process has successful launched and begun executing.

Recommended Action No user action is necessary. This message indicates the system is functioning normally and is provided for informational purposes only.

```
%BOOT-6-DRV_LOAD : Loaded driver [chars]
```

Explanation A kernel driver that was critical to the functioning of the system was successfully loaded.

Recommended Action 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 : Removed incomplete core file: [chars]
```

Explanation 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.

Recommended Action No action required. This is not an error, it is an indication that the system is cleaning up a previous error.

BSHELL

```
%BSHELL-3-EXEC_DIRECTIVE_FAIL : [[chars]] Command directive execution failed:  
[chars]
```

Explanation The diagnostic shell was unable to execute the requested directive.

Recommended Action Check the diagnostic shell trace file for more information on the underlying failure.

```
%BSHELL-3-EXEC_FAIL : [[chars]] Command execution failed
```

Explanation The diagnostic shell was unable to execute the requested interactive command.

Recommended Action Check the diagnostic shell trace file for more information on the underlying failure.

```
%BSHELL-3-EXEC_PREPARE_FAIL : [[chars]] Command execution prepare failed
```

Explanation The diagnostic shell was unable to prepare the requested interactive command for execution. The command failed.

Recommended Action Check the diagnostic shell trace file for more information on the underlying failure.

```
%BSHELL-3-GET_HOSTNAME_FAIL : [[chars]] Get hostname failed: [chars]
```

Explanation The diagnostic shell was unable to read the hostname from the kernel.

Recommended Action No action is required. The diagnostic shell periodically checks for hostname changes to set the user prompt.

```
%BSHELL-3-RECEIVE_MESSAGE_FAILED : [[chars]] Receive message [chars] failed: [chars]
```

Explanation The diagnostic shell was unable to receive a message from the Shell Manager

Recommended Action Retry the operation or start a new diagnostic shell session.

```
%BSHELL-3-SEND_MESSAGE_FAILED : [[chars]] Send message [chars] failed: [chars]
```

Explanation The diagnostic shell was unable to send a message to the Shell Manager.

Recommended Action Retry the operation or start a new diagnostic shell session.

```
%BSHELL-3-TERMINAL_OPERATION_FAIL : [[chars]] Terminal [chars] [chars] failed:  
[chars]
```

Explanation The diagnostic shell was unable to get or set terminal properties. An attempt to change or act on terminal properties failed.

Recommended Action Restart the diagnostic shell and reattempt the failed operation

B

```
%BSHELL-6-BSHELL_UPGRADE_DETECTED : [[chars]] New software detected. Bshell instance restarting.
```

Explanation The diagnostic shell detected a new installation of diagnostic shell software. The diagnostic shell instance exits and restarts with the new software version.

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

```
%BSHELL-6-SESSION_ENDED : [[chars]] bshell session ended for user '[chars]'
```

Explanation A user has exited a diagnostic shell session.

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

```
%BSHELL-6-SESSION_STARTED : [[chars]] bshell session started for user '[chars]'
```

Explanation A user has started a diagnostic shell session.

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

```
%BSHELL-6-SMAN_CONNECTION_FAILED : [[chars]] Shell Manager connect failed: [chars]
```

Explanation 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.

Recommended Action No action is required. Once the Shell Manager process has restarted, the diagnostic shell will reconnect.

```
%BSHELL-6-SMAN_CONNECTION_LOST : [[chars]] Shell Manager connection lost
```

Explanation 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.

Recommended Action This is an informational message only. No action is required. Once the Shell Manager process has restarted, the diagnostic shell will reconnect.

BTRACE_ROTATE

```
%BTRACE_ROTATE-3-ARCHIVE_FAIL : Error archiving trace file -[chars]
```

Explanation While trying to archive a trace file on the active RP, an error occurred that prevented the file transfer. The trace file is not saved.

Recommended Action This message is usually seen a result of an underlying problem with the harddisk: file system, so check the console log for messages related to harddisk: file system messages.

C

C

CEF

%CEF-3-CYLON_CEF_MAX_VRF_EXCEEDED : Number of VRF instances already exceeded allowed limit [dec]

Explanation Number of vrf instances exceeded supported platform scale

Recommended Action Please reduce the number of vrf instances to scale to platform supported scale

%CEF-3-KBP_PREFIX_IP_MPLS_LIMIT_EXCEEDED : Number of ip mpls Prefixes exceeded allowed limit [dec] on asic [dec]

Explanation Number of ip mpls Prefixes exceeded supported scale

Recommended Action Please reduce the number of ip mpls Prefixes to scale to platform supported scale

%CEF-3-KBP_PREFIX_IPV6_LIMIT_EXCEEDED : Number of ipv6 Prefixes exceeded allowed limit [dec] on asic [dec]

Explanation Number of ipv6 Prefixes exceeded supported scale

Recommended Action Please reduce the number of ipv6 Prefixes to scale to platform supported scale

CHASFS

%CHASFS-3-NOCHASFS DIR : The directory [chars] does not exist.

Explanation No explanation.

Recommended Action No action is required.

%CHASFS-3-NOINOTIFY : The inotify device could not be opened. Error [dec].

Explanation This error occurs when there is an error in the system that prevents the notification facility from being accessed.

Recommended Action No action is required.

%CHASFS-3-NOOPEN_PROPERTY : Error opening chassis file system object [chars]: [chars]

Explanation An application was not able to open a an object in its local chassis file system.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support

representative and provide the representative with the gathered information.

```
%CHASFS-3-NORESOLVE_LOCAL_OBJECT : Error resolving local FRU object: [chars]
```

Explanation An application was not able to create a reference to an object in its local chassis file system.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

CMAN_IDPROM_ENVMON

```
%CMAN_IDPROM_ENVMON-3-CMAN_IDPROM_FIELD_INVALID : The idprom contains an invalid environmental monitoring field.
```

Explanation If this error occurs then parsing of the environmental monitoring data is aborted. Environmental monitoring will be either incomplete or absent entirely.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

CMANRP

```
%CMANRP-2-CRASHDUMP : Fatal error, calling crashdump, error: [dec] [chars]
```

Explanation A fatal condition has occurred causing IOS to crashdump.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMANRP-3-CMREADFAIL : Read from cpld_ha fd [dec] failed, errno [dec], event cnt [dec]
```

Explanation Read from cpld_ha device returned 0 bytes.

Recommended Action No action is required.

```
%CMANRP-3-CMSWVERINFO : Unable to process software version information using file [chars]. Reason: [chars]. Error: [dec]
```

Explanation An unexpected condition has occurred while IOS was trying to process the software version information file. As a result, version information may not be available to an SNMP Manager

Recommended Action No action is required.

```
%CMANRP-3-INVERR : Unable to process chassis inventory for file [chars], slot [dec], [chars], error [dec]. Some SPA's may not be fully configured
```

Explanation An unexpected condition has occurred while IOS is trying to process the chassis inventory on startup. IOS can not determine the type and number of all Carrier Cards and SPA's present in the system. Some configuration relating to these SPA's may not be applied and leave the system in an inconsistent state.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMANRP-3-INVERRSPA : Unable to process chassis inventory for file [chars], SPA sub-slot [dec]/[dec], [chars], error [dec]. Some SPA's may not be fully configured
```

Explanation An unexpected condition has occurred while IOS is trying to process the chassis inventory on startup. IOS can not determine the type and number of all Carrier Cards and SPA's present in the system. Some configuration relating to these SPA's may not be applied and leave the system in an inconsistent state.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMANRP-3-MSGDISPATCH : Unable to dispatch received TDL message '[chars]' from Chassis Manager. LUID: [chars]
```

Explanation An unexpected condition has occurred while IOS is trying to dispatch to the TDL message handler functions for received TDL messages from Chassis Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMANRP-3-MSGDISPATCHNULL : Received NULL TDL message from IOS
```

Explanation An unexpected condition in which IOS has received a NULL TDL message from Chassis Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%CMANRP-3-MSGIPCERR : Unable to process received IPC messages from Chassis Manager,  
error: [chars]
```

Explanation An unexpected condition has occurred while IOS is trying to process a received IPC message from Chassis Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMANRP-3-SMU_COMMITTED_FAILED : 'install commit' failed [dec] during reload.
```

Explanation There are uncommitted SMU activity in the system, reload will remove this SMU activity, with user input install commit is tried but failed with the error code mentioned in message.

Recommended Action No action is required.

```
%CMANRP-3-UDEVPERMS : An invalid permissions value, [chars], was found in a udev  
file
```

Explanation The udev files for a particular filesystem contain a description the file system. If the permissions attribute is not recognized then this file system may run with incorrect permissions.

Recommended Action No action is required.

```
%CMANRP-4-SMU_UNCOMMITTED : There are uncommitted SMU, abort reload and 'install  
commit' if required
```

Explanation There are uncommitted SMU activity in the system, reload will remove this SMU activity, use 'install commit' to make it persistent.

Recommended Action No action is required.

```
%CMANRP-6-CMHASTATUS : RP switchover, [chars]
```

Explanation RP switchover events received by chassis manager.

Recommended Action No action is required.

```
%CMANRP-6-CMNOTSWITCH : RP is not doing switchover
```

Explanation Read from cpuld_ha device indicate no switchover event.

Recommended Action No action is required.

C

%CMANRP-6-CMSTATUS : Chassis Manager Process is [chars]

Explanation The current status of Chassis Manager Process.

Recommended Action No action is required.

%CMANRP-6-CMSWREAD : RP switchover event triggered

Explanation RP switchover event triggered by IOS fastpath.

Recommended Action No action is required.

%CMANRP-6-SMU_COMMITTED : 'install commit' is success.

Explanation There were uncommitted SMU activity in the system, reload will remove this SMU activity, with user input install commit is done.

Recommended Action No action is required.

CMANRPCHAIN

%CMANRPCHAIN-6-NOSHUTWARN : Shutdown not supported on this platform

Explanation Shutdown due to sensor overtemp is not supported

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

CMCC

%CMCC-2-BAD_ID_HW : 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.

Explanation Hardware in the specified location could not be identified as a genuine Cisco product

Recommended Action 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

CMEM

%CMEM-3-SENSOR_INIT_FAILED : Sensor ([chars]) initialization failed due to [chars].

Explanation 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.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMEM-4-OBFL_INIT_FAILED : OBFL initialization failed.
```

Explanation This error indicates the OBFL dedicated filesystem is not mounted. OBFL diagnostic information will not be retained for customer troubleshooting.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

CMFP

```
%CMFP-2-BAD_ID_HW : 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.
```

Explanation Hardware in the specified location could not be identified as a genuine Cisco product

Recommended Action 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.

CMLIB

```
%CMLIB-2-IDPROM_INVALID : Invalid IDPROM assembly number [hex]. IDPROM update required
```

Explanation IDPROM assembly number is not supported.

Recommended Action IDPROM update is required

```
%CMLIB-3-THROUGHPUT_VALUE_APPLY_FAILED : Throughput [chars] [chars] -failed to persist throughput of [chars] kbps. Error: [chars]
```

Explanation 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 been used to configure the CPP hardware.

C

Recommended Action Examine the ios, chassis-manager and license-manager logs for possible clues.

```
%CMLIB-3-THROUGHPUT_VALUE_SETUP_FAILED : Throughput [chars] [chars], throughput set to [chars] kbps. Error: [chars]
```

Explanation 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.

Recommended Action Examine the ios, chassis-manager and license-manager logs for possible clues.

```
%CMLIB-4-FW_CHECK : slot [chars]: [chars] current firmware version is [chars], while the minimum \ required version is [chars]. Please upgrade it to minimum required version or higher.
```

Explanation Firmware version in the specified location is lower than minimum required version

Recommended Action Upgrade firmware version to latest.

```
%CMLIB-6-THROUGHPUT_VALUE : Throughput [chars] [chars], throughput set to [chars] kbps
```

Explanation Status indicating whether appropriate throughput is found or enabled and ensuring the value is used to configure the CPP hardware.

Recommended Action No user action is necessary. This is an informational message indicating that the throughput is configured.

CMRP

```
%CMRP-2-ACT2_UDI_DATA_INVALID : The act2 udi secure area format mismatch with unsecure area
```

Explanation 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 more information.

Recommended Action 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.

```
%CMRP-2-BAD_ID_HW : 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.
```

Explanation Hardware in the specified location could not be identified as a genuine Cisco product

Recommended Action 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-3-POWERBUDGET : not enough power budget left for : [chars]:[dec]
```

Explanation The system do not have enough power budget for the new card.

Recommended Action the message will be displayed when not enough power budget left for the new card inserted.

```
%CMRP-5-PEM_OUTPUT_DETECT : Output of PEM [dec] is [dec] V
```

Explanation Value of Output of PEM.

Recommended Action If PEM Output is 0, check Power Cable.

CMRP_ENVMON

```
%CMRP_ENVMON-3-PWR_FRU_HW_AUTO_SHUTDOWN : WARNING: The card on slot [dec] hit abnormal voltage or current. it has been auto-shutdown by hardware for protection
```

Explanation The FRU hit abnormal voltage or current and has been auto-shutdown in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_ENVMON-3-TEMP_FRU_HW_AUTO_SHUTDOWN : WARNING: The card on slot [dec] is overheating. it has been auto-shutdown by hardware for protection
```

Explanation The FRU is overheating and has been auto-shutdown in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_ENVMON-3-TEMP_FRU_SHUTDOWN_NOW : WARNING: [chars] temperature sensor on [chars] is in a shutdown FRU state. FRU shutdown now.
```

Explanation The FRU is overheating and will be shut down in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

representative and provide the representative with the gathered information.

```
%CMRP_ENVMON-3-TEMP_FRU_SHUTDOWN_PENDING : WARNING: [chars] temperature sensor on [chars] is in a shutdown FRU state. FRU shutdown will occur in [dec] minutes.
```

Explanation The FRU is overheating and will be shut down in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_ENVMON-3-TEMP_PSU_SHUTDOWN_NOW : WARNING: [chars] temperature sensor on [chars] is in a shutdown PSU state. PSU shutdown now.
```

Explanation The PSU is overheating and will be shut down in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_ENVMON-3-TEMP_SYS_SHUTDOWN_NOW : WARNING: [chars] temperature sensor on [chars] is in a shutdown SYS state. System shutdown now.
```

Explanation The FRU is overheating and will be shut down in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_ENVMON-3-TEMP_SYS_SHUTDOWN_PENDING : WARNING: [chars] temperature sensor on [chars] is in a shutdown SYS state. System shutdown will occur in [dec] minutes.
```

Explanation The FRU is overheating and will be shut down in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_ENVMON-3-TEMP_WARN_CRITICAL : WARNING: [chars] temperature sensor on [chars] is in a critical state reading [dec]
```

Explanation The FRU is overheating and will be shut down in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_ENVMON-3-TRANSCEIVER_TEMP_SYS_SHUTDOWN_NOW : WARNING: transceiver temperature sensor is in a shutdown SYS state. System shutdown now [hex].
```

Explanation The Transceiver is overheating and will be shut down in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

CMRP_PFU

```
%CMRP_PFU-3-DCPOWERREDUNDANCY : dc input [chars] failed for pem: [dec]
```

Explanation The DC input failed for pem module.

Recommended Action the message will be displayed when DC input failed.

```
%CMRP_PFU-3-FANASSY_REMOVED : Fan Assembly is removed. Please insert to avoid system from heating.
```

Explanation 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.

Recommended Action Insert the fan assembly in the system to prevent system from over heating.

```
%CMRP_PFU-3-PEM_STATUS : WARNING: The power supply module on slot [dec] hits [chars],
```

Explanation The power supply module are not functioning properly.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-PEM_VOLTAGENOTSUPPORTED : 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
```

Explanation The input voltage of the power supply module is out of range

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-PFU_FAN_DEAD : WARNING: Fan [dec] in the [chars] in slot [dec] has failed.
```

Explanation A fan is not functioning properly.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-PFU_FAN_ERR : WARNING: Fan [dec] in slot [dec] has the error: [chars], Please replace it with a new fan.
```

Explanation A fan is not functioning properly.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-PFU_FANS_DEAD : The fans in the [chars] in slot [dec] have all failed.
```

Explanation The system is in danger of overheating because none of the fans in one of the PEMs are working properly.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-PFU_FANS_DEAD_SHUTDOWN : Shutting down system now because the fans in slot [dec] have all failed.
```

Explanation When the fans fail then system does not have sufficient cooling capacity. To prevent damage, the system will automatically shut down.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-PFU_IDPROM_CORRUPT : The PEM/FM idprom could be read, but is corrupt in slot P[dec] The system will run without environmental monitoring for this component
```

Explanation 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.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-PFU_IDPROM_READ_ERR : Could not read the PEM/FM idprom in slot P[dec]. The system will run without environmental monitoring for this component
```

Explanation 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.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-PFU_SHUTDOWN : Shutting down system now because the PEM in slot [dec] was removed and not replaced.
```

Explanation 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.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-PFU_SLOT_VACANT : The platform does not detect a power supply in slot [dec]
```

Explanation There is no power supply in one of the power supply slots.

Recommended Action Insert a power supply into the empty slot.

```
%CMRP_PFU-3-PWR_MGMT_ALARM : WARNING: System does not have sufficient input power for minimum reliable operation requiring [dec] watts. The system needs [dec] watts of additional power.
```

Explanation System power does not meet minimum requirements. Insert additional power supplies or provide current power supplies with a greater input voltage source if applicable.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-PWR_MGMT_LC_SHUTDOWN : WARNING: Linecard in slot [dec] with priority [dec] and a power requirement of [dec] watts has shutdown.
```

Explanation A LC was shutdown due to a power loss.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-PWR_PROTECTION_ACTION : Shutdown the card [chars] due to insufficient power budget.
```

Explanation The total power is not enough, shutdown FRUs for power protection.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-PWR_PROTECTION_MODE : 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.
```

Explanation Input voltage of power supply is too low.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-PWR_REDUN_ALARM_STATE : 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
```

Explanation An active power supplied failed while in redundant power mode.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support

representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-SHUTDOWN_FAILURE : The system attempted to shut itself down, but failed because [chars]
```

Explanation The system reached a condition where it should be shut down, but the shutdown call failed. The system should be manually rebooted.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-TEMP_FRU_SHUTDOWN : [chars] temperature sensor on [chars] is in a shutdown FRU state. FRU shutdown will occur in [dec] minutes.
```

Explanation The FRU is overheating and will be shut down in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-3-TEMP_SYSTEM_SHUTDOWN : [chars] temperature sensor is in a shutdown system state. System shutdown will occur in [dec] minutes.
```

Explanation The system is overheating and will be shut down in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-4-PFU_FAN_INSUFFICIENT : WARNING: Insufficient number of fan modules installed. There are only [dec] fan modules, expecting [dec]
```

Explanation Insufficient number of fan modules installed, should insert new fans as soon as possible to avoid system from over heating.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-4-PFU_FAN_WARN : WARNING: Fan [dec] in slot [dec] has the error: [chars].
```

Explanation A fan is not functioning properly.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-4-PWR_MGMT_WARN : WARNING: Insufficient number of power supplies ([dec])
are installed for power redundancy mode [chars]. The system needs [dec] watts addi-
tional power.
```

Explanation Insufficient number of power supplies are installed. Should insert new power supplies as soon as possible

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-5-DCPOWERINPUT : dc input [chars] recovered for pem: [dec]
```

Explanation The DC input recovered for pem module.

Recommended Action the message will be displayed when DC input recovered.

```
%CMRP_PFU-6-FANASSY_INSERTED : Fan Assembly is inserted.
```

Explanation 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.

Recommended Action No further action is necessary.

```
%CMRP_PFU-6-PEM_INSERTED : PEM in slot [dec] not operational.
```

Explanation 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.

Recommended Action Insert the power supply cable in the PEM and provide power.

```
%CMRP_PFU-6-PFU_BEACON_LED_ON_OFF : [chars] beacon LED in slot PS[dec] is TURNED
[chars].
```

Explanation Power Supply or Fan-tray, Beacon LED turned ON/OFF. This is a notification message only.No action is required.

Recommended Action This is a notification message only. No action is required.

```
%CMRP_PFU-6-PFU_FAN_RECOVERED : Fan in slot [dec] has been recovered from error conditions, Now it's working normally.
```

Explanation Fans are just recovered from an error condition,

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-6-PFU_FAN_RECOVERED_I2C : Successfully restored I2C communication to PSoC [dec] on fan module in slot [dec].
```

Explanation Fans are just recovered from an I2C communication.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-6-PFU_INSERTED : [chars] inserted. System shutdown aborted.
```

Explanation 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

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-6-PWR_MGMT_LC_RECOVERED : Linecard in slot [dec] with priority [dec] has been recovered from shutdown
```

Explanation A LC was recovered from a shutdown

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-6-PWR_MGMT_OK : Sufficient number of power supplies ([dec]) are installed for power redundancy mode [chars] (excess power [dec] watts).
```

Explanation Sufficient number of power supplies are installed.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-6-PWR_PROTECTION_RECOVERED : The power supply in slot P[dec] has been re-
covered from the power protection mode.
```

Explanation Power supply input are just recovered from an error condition,

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-6-PWR_REDUN_RECOVERED : System has recovered from the alarm state and has
[dec] watts of power remaining
```

Explanation User has recovered the system from the alarm state triggered by a power failure

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%CMRP_PFU-6-PWR_UP_FRU : Power up the card [chars] due to power budget change.
```

Explanation The total power become enough, power FRUs.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

COND_DEBUG_HA

```
%COND_DEBUG_HA-2-GET_BUFFER : COND_DEBUG ISSU client failed to get buffer for mes-
sage. Error: [dec] ([chars])
```

Explanation The COND_DEBUG HA client failed to get buffer space for building chkpt message. Message cannot be sent to standby device. If a problem occurs, the standby device cannot be brought up properly.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show logging and show checkpoint client** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the

Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%COND_DEBUG_HA-2-INIT : COND_DEBUG ISSU client initialization failed to [chars]. Error: [dec] ([chars])
```

Explanation The COND_DEBUG ISSU client could not be initialized. This initialization failure must be addressed before in-service software upgrade or downgrade can be performed successfully. If you do not address this failure, there will be downtime during software upgrade or downgrade.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%COND_DEBUG_HA-2-SEND_NEGO_FAILED : COND_DEBUG ISSU client failed to send negotiation message. Error: [dec] ([chars])
```

Explanation The COND_DEBUG ISSU client failed to send a session negotiation message to the peer device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show logging and show checkpoint client** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%COND_DEBUG_HA-2-SESSION_NEGO : COND_DEBUG ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])
```

Explanation An ISSU-compliant client transitions through a series of internal states. The COND_DEBUG ISSU client encountered a 'client negotiation done' state that was unexpected. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show issu session <client_id> and show issu negotiated capability <session_id>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%COND_DEBUG_HA-2-SESSION_REGISTRY : COND_DEBUG ISSU client failed to register session information. Error: [dec] ([chars])
```

Explanation The COND_DEBUG ISSU client failed to register session information. If a problem occurs with the ISSU session registration, the standby device cannot be brought up properly.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%COND_DEBUG_HA-3-INVALID_SESSION : COND_DEBUG ISSU client does not have a valid registered session.
```

Explanation The COND_DEBUG ISSU client does not have a valid registered session.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%COND_DEBUG_HA-3-MSG_SIZE : COND_DEBUG ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])
```

Explanation The COND_DEBUG ISSU client failed to calculate the MTU for the specified message. The COND_DEBUG ISSU client will not be able to send the message to the standby device.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%COND_DEBUG_HA-3-SESSION_UNREGISTRY : COND_DEBUG ISSU client failed to unregister session information. Error: [dec] ([chars])
```

Explanation The COND_DEBUG ISSU client failed to unregister session information.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show issu session <client_id> and show issu negotiated capability <session_id>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%COND_DEBUG_HA-3-TRANSFORM : COND_DEBUG ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])
```

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Explanation The COND_DEBUG ISSU client could not transform the specified message type. If the transmit transformation failed, the checkpoint message was not sent to the standby device. If the receive transformation failed, the checkpoint message was not applied on the standby device. In both cases, the COND_DEBUG state between the active device and the standby device is not identical.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show issu session <client_id> and show issu negotiated version <session_id>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

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DSX

```
%DSX-4-ALARM : [chars] [chars]: [chars]
```

Explanation The specified T1/E1 or T3/E3 Alarm has been asserted or cleared

Recommended Action The recommended action is to isolate and repair the source of the asserted alarm

DYNCMD

```
%DYNCMD-3-CHAINADDFAIL : Parse chain link add failed for '[chars]'
```

Explanation An error has occurred when a dynamic command is being added to the IOS command set. The commands specified will not be available.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-CHAINDELFAIL : Parse chain link delete failed for '[chars]'
```

Explanation An error has occurred when a dynamic command is being removed from the IOS command set. The commands specified will still not be available.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-FLAGSINUSE : New feature flags list [int] invalid while feature flags in use [int]
```

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Explanation IOS received a message to set the feature flags for the CLI. The message received to set the feature flags changed the number of feature flags which is unexpected. The message is ignored.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-FLAGSINVALID : New feature flag list values ([int]) different than expected ([int])
```

Explanation IOS received a message to set the feature flags for the CLI. The message received does not contain the number of feature flag values that the message list size indicated.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-INIT : Dynamic command subsystem failed to initialize '[chars]'
```

Explanation Some features depend on portions of the dynamic command infrastructure. Such features will be unavailable.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-LINKINVALIDALT : Link alternate node message received for node '[chars]', which cannot have an alternate.
```

Explanation IOS received a message to add a command into the CLI. One of the messages to link nodes instructed IOS to link nodes which would result in an invalid construction.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-LINKINVALIDTRANS : Link transition '[chars]' message received for node '[chars]', which cannot have such a transition.
```

Explanation IOS received a message to add a command into the CLI. One of the messages to link nodes instructed IOS to link nodes which would result in an invalid construction.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-LINKOUTOFSEQ : Create node message received when in mode '[chars]'
```

Explanation IOS received a message to add a command node into the CLI. The message was received out of sequence

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-LINKUNKNOWNACCEPTNODE : Link node message received for unknown accept ([chars]) node '[int]'
```

Explanation IOS received a message to add a command into the CLI. One of the messages to link nodes referenced a node unknown to IOS

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-LINKUNKNOWNALTNODE : Link node message received for unknown alternate node '[int]'
```

Explanation IOS received a message to add a command into the CLI. One of the messages to link nodes referenced a node unknown to IOS

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-LINKUNKNOWNNODE : Link node message received for unknown node '[int]'
```

Explanation IOS received a message to add a command into the CLI. One of the messages to link nodes referenced a node unknown to IOS

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

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representative with the gathered information.

```
%DYNCMD-3-MSGBIPCBUFFER : Unable to acquire a BIPC buffer for sending messages.
```

Explanation A message was to be sent by IOS, but no BIPC buffer was available. The message to be sent has been discarded and the associated operation failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-MSGBIPCERR : Unable to process received BIPC messages for Dynamic Com-  
mands, error: [chars]
```

Explanation An unexpected condition has occurred while IOS was trying to process a received BIPC message for Dynamic Commands.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-MSGBUILDERROR : Error '[dec]' building TDL message '[chars]' to send to  
the Shell Manager
```

Explanation An unexpected condition has occurred while IOS is building a TDL message to send to the Shell Manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-MSGDISPATCH : Unable to dispatch received TDL messages for Dynamic Com-  
mands
```

Explanation An unexpected condition has occurred while IOS is trying to dispatch to the TDL message handler functions for received TDL messages for Dynamic Commands.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-MSGDISPATCHNULL : Received NULL TDL message
```

Explanation An unexpected condition in which IOS has received a NULL TDL message for Dynamic Commands.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-MSGENQUEUEERROR : Error queueing TDL message '[chars]' to send to the Shell Manager
```

Explanation An unexpected condition has occurred when IOS attempted to queue a TDL message to send to the Shell Manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-MSGERROR : Error '[chars]' handling a received TDL message '[chars]' for Dynamic Commands
```

Explanation An unexpected condition has occurred while IOS is processing a received Dynamic Command TDL message

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-MSGINVALIDFIELDINT : Invalid field '[chars]' in TDL message '[chars]' received: value '[int]' for Dynamic Commands
```

Explanation A message with an invalid field value was received for Dynamic Command creation

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-MSGINVALIDFIELDSTR : Invalid field '[chars]' value '[chars]' in TDL message '[chars]' received for Dynamic Commands
```

Explanation A message with an invalid field value was received for Dynamic Command creation

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search

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Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-MSGMARSHALERROR : Error '[dec]' marshaling TDL message '[chars]' to send to the Shell Manager
```

Explanation An unexpected condition has occurred while IOS is marshaling TDL message to send to the Shell Manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-MSGMISSINGFIELD : Missing field '[chars]' in TDL message '[chars]' received from the Shell Manager
```

Explanation A message missing a required field was received from the Shell Manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-NODEDUPLICATE : Create node message received for duplicate node '[int]'
```

Explanation IOS received a message to add a command into the CLI. One of the command nodes to be created has an identifier of an existing node. The new node is ignored.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-NODEOUTOFSEQ : Create node message received when in mode '[chars]'
```

Explanation IOS received a message to add a command node into the CLI. The message was received out of sequence

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-NODETYPEUNKNOWN : Create node message received for unknown node type '[dec]', '[chars]'
```

Explanation IOS received a message to add a command into the CLI. One of the command nodes to be created is of a type unknown to IOS

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGERR_LOG_FAIL : Failed to log errors for package '[chars]'
```

Explanation An error has occurred updating the commandset for a newly installed package. The commands which failed to transfer could not be saved for further analysis.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGHANDLER_FILE_REMOVE : Package '[chars]' failed to remove: [chars]
([chars])
```

Explanation An error has occurred when a package was attempting to remove a file. This should never fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGHANDLER_FILE_WRITE : Package '[chars]' failed to write: [chars]
([chars])
```

Explanation An error has occurred when a package was attempting to write a file. The configuration for the package could not be propagated to associated components.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_API : Package interface failure for package '[chars]': [chars]
```

Explanation Some features' configuration depends on a packaging infrastructure. Packaged configuration for the specified package will be unavailable.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search

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Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_ARG : Incorrect argument type for package '[chars]', operation '[chars]': [chars] ([int])
```

Explanation An error has occurred loading the commandset for a newly installed package. The package is not compatible with the running IOS instance.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_ARG_NUMBEVAL : Invalid argument value for package '[chars]', operation '[chars]': [int] ([int])
```

Explanation An error has occurred loading the commandset for a newly installed package. The package is not compatible with the running IOS instance.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_ARG_OPAQUEVAL : Invalid argument value for package '[chars]', operation '[chars]': [IPV6 address] ([int])
```

Explanation An error has occurred loading the commandset for a newly installed package. The package is not compatible with the running IOS instance.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_ARGS : Incorrect argument count for package '[chars]', operation '[chars]': [dec] not [dec]
```

Explanation An error has occurred loading the commandset for a newly installed package. The package is not compatible with the running IOS instance.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%DYNCMD-3-PKGINT_DIR_CREATE : Package integration failed to create directory:  
[chars] ([chars])
```

Explanation An error has occurred when attempting to create a package export directory. This should never fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_DIR_MOVE : Package integration failed to move directory: [chars] to  
[chars] ([chars])
```

Explanation An error has occurred when attempting to move a package export directory. This should never fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_DIR_OPEN : Package integration failed to open directory: [chars]  
([chars])
```

Explanation An error has occurred when attempting to open a package export directory. This should never fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_DIR_REMOVE : Package integration failed to remove directory:  
[chars] ([chars])
```

Explanation An error has occurred when attempting to remove a package export directory. This should never fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_FILE_OPEN : Package integration failed to open file: [chars]  
([chars])
```

Explanation An error has occurred when attempting to open a file in a package export directory. This should never fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_FILE_REMOVE : Package integration failed to remove: [chars]
([chars])
```

Explanation An error has occurred when attempting to remove a package export file. This should never fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_INSTALL : Failed to install '[chars]': [chars]
```

Explanation Some features' configuration depends on a packaging infrastructure. Packaged configuration for the specified package will be unavailable.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_LOAD : Failed to load '[chars]': [chars]
```

Explanation Some features' configuration depends on a packaging infrastructure. Packaged configuration for the specified package will be unavailable.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_LOCK : Failed to acquire package list lock for [chars]: [chars]
```

Explanation An error occurred when a configuration package was being installed or removed. This may indicate a timeout which may be a temporary condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%DYNCMD-3-PKGINT_OFFSET : Invalid offset argument for package '[chars]', operation '[chars]': [chars] ([int])
```

Explanation An error has occurred loading the commandset for a newly installed package. The package is not compatible with the running IOS instance.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_PKGLOCK : [chars] failed to acquire package lock for [chars]
```

Explanation An error occurred when locking a configuration package. The package needs to be locked for processing configuration commands or timer-based processing of configuration data.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_SYMBOL : Package [chars] incompatible: symbol '[chars]' is of type [chars], expected [chars]
```

Explanation Some features' configuration depends on a packaging infrastructure. Packaged configuration for the specified package will be unavailable.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_UNLOCK : Failed to release the package list lock: [chars]
```

Explanation An error occurred when a configuration package was being installed or removed. This should not occur.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGINT_VALIDATE : Failed to validate '[chars]': [chars]
```

D

Explanation Some features' configuration depends on a packaging infrastructure. Packaged configuration for the specified package will be unavailable.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-PKGNODE_ADD_FAIL : Parse node add failed for package '[chars]', [chars]
([int])
```

Explanation An error has occurred loading the commandset for a newly installed package. The node could not be added and the commandset for the package will not be available.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-TREETOP : Unable to link top-level keyword '[chars]' into parse tree
```

Explanation IOS received a message to add a command into the CLI. The appropriate location to link in the command could not be found.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-3-TREETOPNOTKW : The top-level parser transition '[chars]' is not a keyword
```

Explanation IOS received a message to add a command into the CLI. The top-level node must be a keyword node.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%DYNCMD-4-CMD_DEPRECATION : The command 'platform trace runtime' is being depre-
cated. Please use the exec mode command 'set platform software trace' instead. Note
that using this command and 'set platform software trace' together will lead to in-
deterministic results
```

Explanation The command 'platform trace runtime' is being deprecated.

Recommended Action No action is required.

E

%DYNCMD-7-CMDSET_LOADED : The Dynamic Command set has been loaded from the Shell Manager

Explanation IOS has completed loading the set of commands published and processed by components running in packages other than the IOS package.

Recommended Action No action is required.

%DYNCMD-7-CMDSET_UNLOADED : The Dynamic Command set from the Shell Manager has been unloaded

Explanation IOS has completed unloading the Dynamic Command set. This should only occur when a new package has been installed and should shortly be followed by a message indicating that the new Dynamic Command set has been loaded.

Recommended Action No action is required.

%DYNCMD-7-PKGINT_INSTALLED : The command package '[chars]' has been successfully installed

Explanation IOS has completed installation of the specified command package. Configuration commands for the package are now available.

Recommended Action No action is required.

%DYNCMD-7-PKGINT_UNINSTALLED : The command package '[chars]' has been successfully uninstalled

Explanation IOS has completed uninstallation of the specified command package. Configuration commands for the package are no longer available.

Recommended Action No action is required.

E

ECFM_HSBY

%ECFM_HSBY-5-FAIL : Communication lost with remote ODU for link protection group [dec] on [chars]

Explanation Communication was lost with the remote outdoor unit (ODU) due to either a CC message timeout or the interface going down.

Recommended Action No action is required.

%ECFM_HSBY-5-FAILOVER : Failover from [chars] to [chars] in link protection group [dec].

E

Explanation The active outdoor unit (ODU) in the link protection group either has sent a message to the indoor unit (IDU) indicating a failure or communication with the ODU was lost. The IDU has failed over to the standby ODU.

Recommended Action No action is required.

```
%ECFM_HSBY-5-KO : Remote ODU for link protection group [dec] on [chars] has indicated a failure
```

Explanation The remote outdoor unit (ODU) has raised its Sender KO flag indicating a failure.

Recommended Action No action is required.

```
%ECFM_HSBY-5-OK : Remote ODU for link protection group [dec] on [chars] is now ok.
```

Explanation The previously failed remote outdoor unit (ODU) has recovered.

Recommended Action No action is required.

```
%ECFM_HSBY-5-PORT_ACTIVE : [chars] link protection group [dec] now forwarding traffic
```

Explanation The remote outdoor unit (ODU) connected to this interface is now active. This interface is now forwarding traffic to/from the remote ODU.

Recommended Action No action is required.

```
%ECFM_HSBY-5-SUSPEND : Remote ODU for link protection group [dec] on [chars] is now suspended.
```

Explanation The remote outdoor unit (ODU) has requested monitoring of CC messages be temporarily suspended.

Recommended Action No action is required.

EMD

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

Explanation An event facility initialization or maintenance function failed. This error could be due to a software defect or system resource limitation.

Recommended Action Restart the card.

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

Explanation The system was unable to determine a card state. This error could be due to a software defect or system resource limitation.

Recommended Action Restart the card.

E

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

Explanation The system failed to initialize the application services. This error could be due to a software defect or system resource limitation.

Recommended Action Restart the card.

```
%EMD-3-IDPROM_ACCESS : Failed access or process an IDPROM because [chars]
```

Explanation 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.

Recommended Action Examine the logs for IDPROM and hardware errors.

```
%EMD-3-IDPROM_SENSOR : One or more sensor fields from the idprom failed to parse properly because [chars].
```

Explanation 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.

Recommended Action Examine the logs for IDPROM and hardware errors.

```
%EMD-3-PFU_INITIALIZATION : The RP has failed to initialize a Power Supply/Fan module controller because [chars]
```

Explanation 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.

Recommended Action Examine the logs for C2W and hardware errors.

```
%EMD-3-SENSOR_INITIALIZATION : Failed to initialize sensor monitoring because [chars].
```

Explanation The system failed to initialize an IDPROM sensor monitoring process. This error can occur from a hardware defect, software defect, or incorrect IDPROM content.

Recommended Action Examine the logs for IDPROM and hardware errors.

ENVIRONMENTAL

```
%ENVIRONMENTAL-1-ALERT : [chars], Location: [chars], State: [chars], Reading: [dec] [chars]
```

Explanation One of the sensors in the system is reading an out of normal value.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance

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Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%ENVIRONMENTAL-1-SENSORFAIL : [chars], Location [chars], State: fail
```

Explanation One of the sensors in the system has detected a failure condition from which it can not recover. This sensor is no longer reporting readings to the environmental monitoring subsystem.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%ENVIRONMENTAL-3-CHASFSERR : Sensor [chars] on FRU [chars] has an invalid chasfs device state [chars]
```

Explanation The system does not understand the state that the sensor is reporting. This is most likely a filesystem corruption or ISSU problem. You may try rebooting the router to see if the problem corrects itself.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%ENVIRONMENTAL-3-TDLERROR : Error processing TDL message. [dec]
```

Explanation An unexpected condition in which IOS has received a TDL message which it can not process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%ENVIRONMENTAL-5-SENSOROK : [chars], Location: [chars], State: normal
```

Explanation One of the sensors in the system had been in a failure condition but is now operating normally.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%ENVIRONMENTAL-6-NOTICE : [chars], Location: [chars], State: [chars], Reading: [dec] [chars]
```

Explanation Informational message on the sensor reading

E

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

EPOCH

```
%EPOCH-6-EPOCH_REJECTED : Peer [chars] has rejected epoch: [chars]
```

Explanation This error occurs if epoch from shell-manager has been rejected by the peer.

Recommended Action Check the epoch and peer state.

EQPT_ALARM_PERSISTENCY

```
%EQPT_ALARM_PERSISTENCY-3-EQPT_ALARM_INFO_NULL : Persistent alarm queue alarm info is NULL
```

Explanation None

Recommended Action None

```
%EQPT_ALARM_PERSISTENCY-3-EQPT_ALARM_QUEUE_NULL : Persistent alarm queue info is NULL
```

Explanation None

Recommended Action None

```
%EQPT_ALARM_PERSISTENCY-3-EQPT_NULL_DATA_STRUCTURE : [chars] is NULL
```

Explanation None

Recommended Action None

ETHER_MODULE

```
%ETHER_MODULE-3-INVALID_DATA_INSTANCE : interface type [chars], slot [dec] port [dec] vc [dec] : [chars]
```

Explanation Data required to support the interface is not available.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

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representative with the gathered information.

```
%ETHER_MODULE-3-UNSUPPORTED_DATA : Data conversion error ([chars], [hex])
```

Explanation An internal software error has occurred when converting the data specified in the message from one representation to another.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

EVENTLIB

```
%EVENTLIB-3-CPUHOG : [chars]: [int]ms, Traceback=[chars]
```

Explanation This error occurs when a particular event consumes an unfair share of the CPU that may degrade overall system response time.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show platform software process event** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%EVENTLIB-3-EVFDREAD : Event notification read failed with err [chars]
```

Explanation This occurs when we fail to read a thread notify event

Recommended Action Report this occurrence to Engineering. Use Topic to search for a similar DDTs. If you find none, write a DDTs for this problem.

```
%EVENTLIB-3-HISTELEM : elem[[int]] event: [chars] [chars] set: [int]ms unset:
[int]ms hog check: [dec] caller: [IPV6 address] app-info: [chars]
```

Explanation This event element is part of a CPUHOG or TIMEHOG error, providing diagnostic details useful to engineering. Save all element messages along with the HOG error.

Recommended Action Report this occurrence to Engineering. Use Topic to search for a similar DDTs. If you find none, write a DDTs for this problem.

```
%EVENTLIB-3-HISTSUMM : dispatch start: [int]ms elapsed time: [int]ms detected hog:
[int] set count: [int]
```

Explanation This event summary is part of a CPUHOG or TIMEHOG error, providing diagnostic details useful to engineering. Save this summary message along with the HOG error.

E

Recommended Action Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

```
%EVENTLIB-3-RUNHOG : [chars]: [int]ms, Traceback=[chars]
```

Explanation This error occurs when a particular event consumes an overall unfair share of the CPU that may degrade overall system response time.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show platform software process event** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%EVENTLIB-3-TIMEHOG : [chars]: [int]ms, Traceback=[chars]
```

Explanation This error occurs when a particular event takes an unusually long time to complete. This may affect overall system response time.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show platform software process event** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

EVUTIL

```
%EVUTIL-3-PERMISSION : Operation not permitted for pid [dec] tid [dec]
```

Explanation Eventlib has detected that a process has attempted to invoke an API that is listed as having a level of permission.

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%EVUTIL-3-PREREQUISITE_INIT : A preferred library has failed to initialize: [chars]
```

Explanation Eventlib has detected that a preferred library which provides infrastructure services has failed to fully initialize.

Recommended Action 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

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<http://www.cisco.com/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%EVUTIL-6-PREREQUISITE : Preferred library is absent
```

Explanation Eventlib has detected that a preferred library is missing from the process.

Recommended Action This is an informational message.

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FLASH_CHECK

```
%FLASH_CHECK-3-DISK_QUOTA : Flash disk quota exceeded [free space is [dec] kB] -  
Please clean up files on bootflash.
```

Explanation The remaining free space on the flash disk is below the recommended threshold of at least half the installed RP memory. This limits the system from core files necessary to root cause critical system faults.

Recommended Action Please remove unneeded files from bootflash: device. Any core files under the bootflash:/core directory should be reported and then deleted.

FMANFP

```
%FMANFP-3-CRYPTO_DEVICE_REQUEST_FAILED : Crypto-device is busy processing last re-  
quest. This request will be discarded
```

Explanation Crypto-device is still processing previous reload request or still processing crypto feature packets. New request will not be applied

Recommended Action No action is required.

```
%FMANFP-3-CRYPTO_LICENSE_THPUT_MAX_APPROACHED : Average crypto throughput rate ap-  
proached the licensed crypto bandwidth of [int] bps during [dec] sampling periods in  
the last 24 hours, sampling period is [dec] seconds
```

Explanation To monitor crypto throughput and, to generate notification/warning if the average throughput utilization over a longer time are approaching or exceeding the crypto licensed bandwidth

Recommended Action No action is required.

```
%FMANFP-3-CRYPTO_LICENSE_THPUT_THRESHOLD_EXCEED : Average crypto throughput rate ex-  
ceeded [dec] percent of licensed crypto bandwidth of [int] bps during [dec] sampling  
periods in the last 24 hours, sampling period is [dec] seconds
```

Explanation To monitor crypto throughput and, to generate notification/warning if the average throughput utilization over a longer time are approaching or exceeding the cypro licensed bandwidth

Recommended Action No action is required.

```
%FMANFP-3-LICENSE_THPUT_INVALID : Invalid throughput [int]kbps
```

Explanation The throughput value is invalid. The forwarding engine will not operate at the throughput value.

Recommended Action Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

```
%FMANFP-6-CRYPTO_DEVICE_NOT_PRESENT : Hardware crypto-device is not present. Request aborted
```

Explanation Hardware crypto-device is not present on the system. User request doesn't apply or be executed. This may not be an error.

Recommended Action No action is required.

```
%FMANFP-6-CRYPTO_DEVICE_REQUEST_COMPLETE : Crypto-device is ready to process packets
```

Explanation Crypto-device is load with new core based on user request. Now it is ready to process packets

Recommended Action No action is required.

```
%FMANFP-6-FMANACLLOGMISSMSG : access-list logging datapath rate-limited or missed [int] packet[chars]
```

Explanation Some packet matching logs were missed because the access list log messages were rate-limited or no access list log buffers were available.

Recommended Action No action is required.

```
%FMANFP-6-IPACCESSLOGDP : list [chars] [chars] [chars] [chars] [chars]-> [chars] ([int]/[int]), [int] packet[chars]
```

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

```
%FMANFP-6-IPACCESSLOGNP : list [chars] [chars] [int] [chars] [chars]-> [chars], [int] packet[chars]
```

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

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```
%FMANFP-6-IPACCESSLOGP : list [chars] [chars] [chars] [chars]([int]) [chars]->
[chars]([int]), [int] packet[chars]
```

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

```
%FMANFP-6-IPACCESSLOGSGDP : ingress_interface='[chars]' sgacl_name='[chars]' ac-
tion='[chars]' protocol='[chars]' src-ip='[chars]' dest-ip='[chars]' type='[int]'
code='[int]' sgt='[int]' dgt='[int]' logging_interval_hits='[int]'
```

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

```
%FMANFP-6-IPACCESSLOGSGNP : ingress_interface='[chars]' sgacl_name='[chars]' ac-
tion='[chars]' protocol='[int]' src-ip='[chars]' dest-ip='[chars]' sgt='[int]'
dgt='[int]' logging_interval_hits='[int]'
```

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

```
%FMANFP-6-IPACCESSLOGSGP : ingress_interface='[chars]' sgacl_name='[chars]' ac-
tion='[chars]' protocol='[chars]' src-ip='[chars]' src-port='[int]' dest-
ip='[chars]' dest-port='[int]' sgt='[int]' dgt='[int]' logging_interval_hits='[int]'
```

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

```
%FMANFP-6-IPV6ACCESSLOGDP : list [chars] [chars] [chars] [chars] [chars]-> [chars]
([int]/[int]), [int] packet[chars]
```

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

```
%FMANFP-6-IPV6ACCESSLOGNP : list [chars] [chars] [int] [chars] [chars]-> [chars],
[int] packet[chars]
```

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

```
%FMANFP-6-IPV6ACCESSLOGP : list [chars] [chars] [chars] [chars]([int]) [chars]->
[chars]([int]), [int] packet[chars]
```

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

FMANRP

```
%FMANRP-4-INVALID_CCE_POSITION : Invalid position '[dec]' prevented [chars]
```

Explanation A messaging error has occurred during service-policy modification and the configuration could not be downloaded properly

Recommended Action Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

FMANRP_ACL

```
%FMANRP_ACL-3-EXPOGACLIMITERR : Expanded OGACL ([chars]) size ([dec]) exceeded MAX  
ACL limit ([dec])
```

Explanation Expanded OGACL size exceeded the maximum ACL limit. Command rejected

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** Reduce # of ACEs in the **ACL** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-INVALIDV4ACETYPE : v4 ACE type is invalid
```

Explanation An unexpected condition has occurred which is due to the type of v4 ACE created

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** **show ip access-list** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-INVALIDV6OP : Operation is invalid
```

Explanation An unexpected condition has occurred which is due to the operation performed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** **show ipv6 access-list** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-NOACL : ACL is null
```

Explanation An unexpected condition has occurred which is due to the absence of an ACL structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip access-list** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-NOMACACE : mac ACE is null
```

Explanation An unexpected condition has occurred which is due to the absence of an mac ACE structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show access-list** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-NOSB : Subblock on interface [chars] ([hex]) is null
```

Explanation An unexpected condition has occurred which is due to the absence of a subblock structure on interface.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-NOSWIDB : Sub-interface is null
```

Explanation An unexpected condition has occurred which is due to the absence of a swidb structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-NOV4ACE : v4 ACE is null
```

Explanation An unexpected condition has occurred which is due to the absence of an v4 ACE structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip access-list** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool:

<https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-NOV6ACE : v6 ACE is null
```

Explanation An unexpected condition has occurred which is due to the absence of an v6 ACE structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ipv6 access-list** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-TMPLACLDISABLEERR : Not enough resources to disable template ACL
```

Explanation Not enough resources to store individual ACLs

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip access-list template summary** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-TMPLACLINITERR : Template ACL initialization error
```

Explanation An unexpected condition has occurred on template ACL initialization

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show memory** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-TMPLACLNOMEMERR : Template ACL no memory error
```

Explanation An unexpected condition has occurred on template ACL processing

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show memory** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-UPDMACSTATSERR : Update mac ACL statistics error
```

Explanation An unexpected condition has occurred when updating mac ACL statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show access-list** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-UPDV4STATSEERR : Update v4 ACL statistics error
```

Explanation An unexpected condition has occurred when updating v4 ACL statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip access-list** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ACL-4-UPDV6STATSEERR : Update v6 ACL statistics error
```

Explanation An unexpected condition has occurred when updating v6 ACL statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ipv6 access-list** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_ALG

```
%FMANRP_ALG-3-API_FAILED : NULL
```

Explanation A call to the API of another component has indicated an error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ALG-3-EINVAL : NULL
```

Explanation An unexpected input value to a function was incorrect

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

FMANRP_DPSS

```
%FMANRP_DPSS-3-DPSSFOIOSDENQUEUE : Failed to enqueue dpss feature object [hex] config message for transmission
```

Explanation This operation to enqueue an IPC message for sending has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_DPSS-3-DPSSFOIPCALLOC : Failed to alloc IPC buffer for dpss feature object [hex] config message
```

Explanation This operation to allocate IPC buffer for dpss feature object configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_DPSS-3-DPSSFOTDLCREATE : Failed to create tdl msg for dpss feature object [hex] config message
```

Explanation This operation to create an TDL message has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_DPSS-3-DPSSFOTDLMSGMARSHAL : Failed to copy dpss feature object config message to IPC buffer for fo_hdl [hex]
```

Explanation This operation to build a TDL message for dpss feature object configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

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```
%FMANRP_DPSS-3-DPSSFOTDLSET : Failed to set tdl msg detail for dpss feature object [hex] config message
```

Explanation This operation to set an TDL message has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_DPSS-3-DPSSGLOBALIOSDENQUEUE : Failed to enqueue dpss global config message for transmission
```

Explanation This operation to enqueue an IPC message for sending has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_DPSS-3-DPSSGLOBALIPCALLOC : Failed to alloc IPC buffer for dpss global config message
```

Explanation This operation to allocate IPC buffer for dpss global configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_DPSS-3-DPSSGLOBALTDLCREATE : Failed to create tdl msg for dpss global config message
```

Explanation This operation to create an TDL message has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_DPSS-3-DPSSGLOBALTDLMSGMARSHAL : Failed to copy dpss global config message to IPC buffer
```

Explanation This operation to build a TDL message for dpss global configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search

Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_DPSS-3-DPSSGLOBALTDLSET : Failed to set tdl msg detail for dpss global config message
```

Explanation This operation to set an TDL message has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_ESS

```
%FMANRP_ESS-3-ENQUEFAIL : [chars] ([hex], [hex])
```

Explanation An unexpected condition has occurred which resulted in a configuration not being sent to the Forwarding Manager Process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-3-ERREVENT2 : [chars] ([hex] / [hex])
```

Explanation General error used for failures during internal software integrity checks.

Recommended Action Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

```
%FMANRP_ESS-3-ERREVENT : [chars] ([hex])
```

Explanation General error used for failures during internal software integrity checks.

Recommended Action Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

```
%FMANRP_ESS-4-EVSICREAT : [chars] sip_ess_segment= [hex], segment_id= [int], fsp_ess_segment= [hex], segment_id= [int], evsi= [int]
```

Explanation A failure has occurred in creating a session interface.

Recommended Action The session creation is rejected. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the

error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-FULLVAI : Session creation failed due to Full Virtual-Access Inter-
faces not being supported. Check that all applied Virtual-Template and RADIUS fea-
tures support Virtual-Access sub-interfaces. swidb= [hex], ifnum= [dec]
```

Explanation A failure has occurred in creating a session interface due to a Full Virtual-Access Interface being created. Full Virtual-Access Interface are created if a Virtual-Template or RADIUS feature does not support Virtual-Access sub-interfaces. This platform only supports Virtual-Access sub-interfaces. Refer to Action to isolate offending feature.

Recommended Action The session creation is rejected. Steps to isolate unsupported Session feature: Run 'test Virtual-Template # subinterface' where # is the Virtual-Template number being used to create the session. Remove any identified features that are not sub-interface compliant. For RADIUS features: Configure aaa policy interface-config allow-subinterface on the router or cisco-avpair=lcp:allow-subinterface=yes needs to be specified in the subscriber profile on the Radius server.

```
%FMANRP_ESS-4-MAXSESS : [chars] ([dec])
```

Explanation This error indicates a failed session setup due to the lack of a necessary system resource.

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

```
%FMANRP_ESS-4-SEGFAIL2 : [chars] Seghandle [hex] of Type [int] ess_segment= [hex]
```

Explanation A failure has occurred with a segment operation.

Recommended Action The session creation is rejected. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-SEGFAIL : [chars] Seghandle [hex] of Type [int]
```

Explanation A failure has occurred with a segment operation.

Recommended Action The session creation is rejected. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-SESSCNT : [chars] ([hex])
```

Explanation Inactive/Active Session Counts are incorrect.

Recommended Action The active sessions should still be functional but overall system performance may be less than optimal. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNEVENT2 : [chars] ([hex] / [hex])
```

Explanation A failure has occurred possibly relating to system resources.

Recommended Action The session should still be functional but overall system performance may be less than optimal. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNEVENT : [chars] ([hex])
```

Explanation A failure has occurred possibly relating to system resources.

Recommended Action The session should still be functional but overall system performance may be less than optimal. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_2U : [chars] ([int] / [int])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session should still be functional but overall system performance may be less than optimal. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_2X2S : [chars] ([hex] / [hex] / [chars] / [chars])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session creation may be rejected. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_2X : [chars] ([hex] / [hex])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session creation is rejected. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_2XD : [chars] ([hex] / [hex] / [dec])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session should still be functional but overall system performance may be less than optimal. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_3X : [chars] ([hex] / [hex] / [hex])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session creation may be rejected. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM : [chars]
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session creation is rejected. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_D : [chars] ([dec])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session creation is rejected. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_DU : [chars] ([dec] / [int])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session should still be functional but overall system performance may be less than optimal. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_F2S : [chars]: [chars] ([chars] / [chars])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session should still be functional but overall system performance may be less than optimal. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_F2X : [chars]: [chars] ([hex] / [hex])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session creation is rejected. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_FU : [chars]: [chars] ([int])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session creation is rejected. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

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representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_S : [chars]: [chars]
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session creation is rejected. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_U2X : [chars] ([int] / [hex] / [hex])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session creation is rejected. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_U : [chars] ([int])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session creation is rejected. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_UXD : [chars] ([int] / [hex] / [dec])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session should still be functional but overall system performance may be less than optimal. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_ESS-4-WRNPARAM_XU : [chars] ([hex] / [int])
```

Explanation A failure has occurred relating to an incorrect functional parameter(s).

Recommended Action The session should still be functional but overall system performance may be less than optimal. If you determine that the system is adversely affected then Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_IPSEC

```
%FMANRP_IPSEC-3-HAPI_PCP_UNEXP_REPLY : [chars]: PCP (trans [hex], opcode [hex]): unexpected reply from crypto hardware.
```

Explanation An unexpected internal software error. Engineering must be reported and investigate this occurrence.

Recommended Action Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

```
%FMANRP_IPSEC-6-HAPI_PCP_NACK : [chars]: PCP NACK (trans [hex], opcode [hex], errcode [hex]): crypto hardware configuration may be out of sync.
```

Explanation A failure has occurred during security policy downloading in crypto hardware. The command is rejected.

Recommended Action The configuration may be ignorable or recovered automatically in crypto hardware. The session may still be functional but less than optimal performance. If you determine that the system is adversely affected then Embedded Services Processor (ESP) tracelog should be collected. Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_MFR

```
%FMANRP_MFR-3-BLCFGFAIL : Unable to [chars] link [chars] [chars]
```

Explanation An unexpected condition has occurred at Bundle link configuration %s

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_MFR-3-BLFAIL : Unable to [chars] link [chars] [chars]
```

Explanation An unexpected condition has occurred at Bundle link configuration %s

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance

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Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_MFR-3-BNDLFAIL : Unable to [chars] bundle [chars]
```

Explanation An unexpected condition has occurred at Bundle configuration

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_MFR-3-TDLFAIL : Unable to send [chars] [chars] message to Forwarding Manager Process ([chars])
```

Explanation An unexpected condition has occurred which resulted in a configuration not being sent to the Forwarding Manager Process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_MPLS

```
%FMANRP_MPLS-3-ENQUEFAIL : Unable to send [chars] [chars] message to Forwarding Manager Process
```

Explanation An unexpected condition has occurred which resulted in a configuration not being sent to the Forwarding Manager Process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_MPLS-3-NOOBJ : Object entry is null
```

Explanation An unexpected condition has occurred which is due to the absence of an object entry structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show mpls** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

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```
%FMANRP_MPLS-3-UNSPTYPE : Not supported bundle type [dec]
```

Explanation An unexpected condition has occurred which is due to an operation request to an unsupported bundle oca type is received.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_NAT

```
%FMANRP_NAT-3-AVLDELETE : Failed to delete node from NAT [chars] database for [IP_address]
```

Explanation This operation to perform delete processing has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-AVLTREEWALK : Failed to walk NAT [chars] database for [chars]
```

Explanation This operation to perform stale processing has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-DEBUGTDLMSGMARSHAL : Failed to copy debug NAT request message to IPC buffer
```

Explanation This operation to build a TDL message for debug NAT command has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-IFADDRTDLMSGMARSHAL : Failed to copy interface address change message to IPC buffer for interface [chars], new address [IP_address]
```

Explanation This operation to build a TDL message for NAT interface address configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-IFTDLMSGMARSHAL : Failed to copy interface config essage to IPC buffer
for Interface [chars] ([hex]), domain [chars], operation [chars]
```

Explanation This operation to build a TDL message for interface configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-INVALID_ADDRESS : Received an invalid address [IP_address]
```

Explanation An unsupported address for the given config was received.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-IOSDENQUEUE : Failed to enqueue NAT [chars] message for transmission
```

Explanation This operation to enqueue an IPC message for sending has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-IPALIASTDLL : Error with ipalias message received from data path
```

Explanation An unexpected condition has occurred with received ipalias message from data path

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-IPALIASTYPE : Received ipalias message from data path with unsupported
address type [dec]
```

Explanation An unexpected condition has occurred with received ipalias message from data path with unsupported address type

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-IPSTATICROUTETDL : Error with static ip route message received from data path
```

Explanation An unexpected condition has occurred with received static ip route message from data path

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-IPSTATICROUTETYPE : Received ip static route message from data path with unsupported address type
```

Explanation An unexpected condition has occurred with received static ip route message from data path with unsupported address type

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-MAPPINGTDLMSGMARSHAL : Failed to copy mapping config message to IPC buffer for mapping id [dec] (vrf table id [dec])
```

Explanation This operation to build a TDL message for mapping configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-MAXENTRYTDLMSGMARSHAL : Failed to copy max entry config message to IPC buffer for type [chars], entry data [hex], max_limit [dec]
```

Explanation This operation to build a TDL message for max entry add/delete has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search

Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-MIBEVENT : Failed to get NAT MIB response message: [chars]
```

Explanation An unsupported error occurred with waiting for NAT MIB response message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-MSGALLOCERR : Failed to allocate message
```

Explanation When attempting to send message to dataplane, there was not enough memory to allocate the message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-NATSETTDLMSGFAIL : When download [chars], failed to set a field in message
```

Explanation software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-POOLTDLMSGMARSHAL : Failed to copy pool config message to IPC buffer for pool [chars] (id [dec])
```

Explanation This operation to build a TDL message for pool configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-PORTLISTPROTO : Protocol type [dec] for global addr [IP_address] in the portlist allocation request is not supported
```

Explanation An unexpected protocol type has occurred with received portlist allocation request message from data path

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-PORTLISTTDL : Error with portlist allocation request message received from data path
```

Explanation An unexpected condition has occurred with received portlist allocation request message from data path

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-PORTLISTTDLMSGMARSHAL : Failed to copy portlist config message to IPC buffer for addr [IP_address], proto [dec], start_port [dec], end_port [dec]
```

Explanation This operation to build a TDL message for portlist add/delete has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-PORTLISTTYPE : Address type [dec] for global address in the portlist allocation request is not supported
```

Explanation An unexpected address type has occurred with received portlist allocation request message from data path

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-RANGETDLMSGMARSHAL : Failed to copy pool address range config message to IPC buffer for pool [chars], range start [IP_address], range end [IP_address]
```

Explanation This operation to build a TDL message for address range configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-SERTDLMMSGMARSHAL : Failed to copy service config message to IPC buffer for application type [dec], protocol type [dec], port [dec]
```

Explanation This operation to build a TDL message for service configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-SERVICERM : Failed to delete NAT services for appl type [chars], protocol [chars], port [dec]
```

Explanation An unexpected condition has occurred which is due to the failure to remove data structures for NAT special services.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-STATSUPDTDL : Failed to update NAT [chars] statistics
```

Explanation An unexpected condition has occurred when updating statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-TIMEOUTTDLMSGMARSHAL : Failed to copy timeout config message to IPC buffer for timeout type [dec]
```

Explanation This operation to build a TDL message for timeout configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-VRFDELTDLMMSGMARSHAL : Failed to copy VRF delete message to IPC buffer for vrf table id [dec]
```

Explanation This operation to build a TDL message for vrf deletion configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search

Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-WLANSESSIDB : Received WLAN session message from data path with nil
input interface for inside local host [IP_address]
```

Explanation An unexpected condition has occurred with received WLAN session message from data path with nil input interface

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-WLANSESSTDLD : Error with WLAN session message received from data path
```

Explanation An unexpected condition has occurred with received WLAN session message from data path

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-3-WLANSESSTYPE : Received WLAN session message from data path with un-
supported address type [dec]
```

Explanation An unexpected condition has occurred with received WLAN session message from data path with unsupported address type

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-4-BADACTION : Invalid action [dec] for NAT configuration
```

Explanation An unexpected condition has occurred which is invalid action for a NAT configuration.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-4-LOGGING_PARAM : Highspeed logging export [chars] [int]nsupported
```

Explanation An unsupported exporting parameter for highspeed logging on data path is received.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show running** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-4-NOACL : Access list is null
```

Explanation An unexpected condition has occurred which is due to the absence of an access list structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip access-lists** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-4-NOLOGGINGPARAM : Highspeed logging structure is nil
```

Explanation An unexpected condition has occurred which is due to the absence of a logging parameter structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show running** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-4-NOMAPPING : A mapping structure is null
```

Explanation An unexpected condition has occurred which is due to the absence of a NAT mapping structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-4-NONATSERVICE : Service structure is null
```

Explanation An unexpected condition has occurred which is due to the absence of a NAT service structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool:

<https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-4-NOPOOL : Pool structure is null
```

Explanation An unexpected condition has occurred which is due to the absence of a NAT pool structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-4-NORANGE : Pool address range structure is null
```

Explanation An unexpected condition has occurred which is due to the absence of a NAT pool address range structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-4-NOREPLICATEPARAM : Session replication structure is nil
```

Explanation An unexpected condition has occurred which is due to the absence of a session replication parameter structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show running** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT-4-NOSWIDB : Sub-interface is null
```

Explanation An unexpected condition has occurred which is due to the absence of a swidb structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_NAT64

```
%FMANRP_NAT64-3-API_FAILED : NULL
```

Explanation A call to the API of another component has indicated an error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT64-3-EINVAL : NULL
```

Explanation An unexpected input value to a function was incorrect

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_NAT66

```
%FMANRP_NAT66-3-API_FAILED : NULL
```

Explanation A call to the API of another component has indicated an error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NAT66-3-EINVAL : NULL
```

Explanation An unexpected input value to a function was incorrect

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_NETFLOW

```
%FMANRP_NETFLOW-3-AGGRCACHENULL : The pointer for aggregation cache type [dec] is NULL
```

Explanation An unexpected condition has occurred which is due to the absence of an aggregation cache data structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip cache flow** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-3-CACHETDLMSGMARSHAL : Failed to copy cache config message to IPC
buffer for cache type [dec]
```

Explanation The operation of building a TDL message for cache configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-3-CLRSTATSTDLMSGMARSHAL : Failed to copy clear statistics message to
IPC buffer
```

Explanation The operation of building a TDL message for clearing statistics in the data path has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-3-EXPORTERSRCIFINVALID : Management interface ([chars]) cannot be
used as source for an exporter
```

Explanation Exporter configuration failed because the management interface cannot be configured as source interface

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-3-EXPORTERTDLMSGMARSHAL : Failed to copy exporter config message to
IPC buffer for cache type [dec]
```

Explanation The operation of building a TDL message for exporter configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%FMANRP_NETFLOW-3-IFFLOWTDLMSGMARSHAL : Failed to copy interface flow config message to IPC buffer for [chars]
```

Explanation The operation of building a TDL message for interface flow configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-3-INVALIDFLOWDEFPCPP : CPP Flow definition can not be created [int]
```

Explanation The operation of building a flow definition using flow fields received from CPP has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-3-NOSAMPLER : Sampler for sampler-map name [chars] is null
```

Explanation An unexpected condition has occurred which is due to the absence of a sampler-map structure

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show sampler** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-3-NOSAMPLERNAME : Sampler-map name is null
```

Explanation An unexpected condition has occurred which is due to the absence of a sampler-map name.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show sampler** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-3-SAMPLERTDLMSGMARSHAL : Failed to copy sampler-map config message to IPC buffer for [chars]
```

Explanation The operation of building a TDL message for sampler-map configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-3-STATSUPDTDL : Failed to update netflow [chars] statistics
```

Explanation An unexpected condition has occurred when updating statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-3-UNKNOWNCACHECMD : Unknown aggregation cache command [dec] received
```

Explanation The aggregation cache configuration command has failed due to unknown command.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-3-UNKNOWNCACHETYPE : Unknown cache type [dec] received
```

Explanation The cache configuration command has failed due to unknown cache scheme type.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-4-EXPORTERVERSION : Failed to change default exporter version to [dec]
```

Explanation The operation of changing the default exporter version has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip flow export** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-4-NOFIBIDB : fibdb for interface [chars] is null
```

Explanation An unexpected condition has occurred which is due to the absence of a fibidb structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_NETFLOW-4-NOSWIDB : Sub-interface is null
```

Explanation An unexpected condition has occurred which is due to the absence of a swidb structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_PBR

```
%FMANRP_PBR-3-INVALIDIF : The interface specified for '[chars]' is not valid
```

Explanation A non-existent interface is specified for the policy based routing route-map operation specified in the message.

Recommended Action show interface

```
%FMANRP_PBR-3-RTMAP_NAME_NULL : The route-map name for [chars] is NULL
```

Explanation An unexpected condition has occurred due to the absence of an internal route-map data structure.

Recommended Action show route-map

```
%FMANRP_PBR-3-RTMAPNULL : The route-map structure for [chars] is NULL
```

Explanation An unexpected condition has occurred due to the absence of an internal route-map data structure.

Recommended Action show route-map

```
%FMANRP_PBR-3-UNSUPPORTED_RMAP : Route-map [chars] has unsupported options for Policy-Based Routing. It has been removed from the interface, if applied.
```

Explanation The route-map attached to an interface for policy routing contains an action that is not supported on this platform. This is a hardware limitation.

Recommended Action Reconfigure the route-map. Use only 'permit' entries and 'set ip next-hop' action in the route-map.

FMANRP_PFR

```
%FMANRP_PFR-4-NOINTF : PfR Interface [chars] not exist, can't be [chars]
```

Explanation An unexpected condition has occurred which is due to the absence of MCP PfR interface info.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show oer border** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_PFR-4-NULLINPUT : NULL input, [chars]
```

Explanation An unexpected condition has occurred which is due to the NULL value of the input parameter.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show oer border** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_PFR-4-UNSUPPORTED : Unsupported action, [chars]
```

Explanation An unexpected condition has occurred which is due to and unsupported action being executed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show oer border** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_QOS

```
%FMANRP_QOS-3-ACTNOCLASSMAP : Class-map information not found
```

Explanation An unexpected condition has occurred when trying to determine class-map information for one of the classes in a policy-map.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show policy-map** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-ACTNOPOLICYMAP : Policy-map information not found
```

Explanation An unexpected condition has occurred when trying to determine policy-map information for one of the service policies attached to an interface.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show policy-map** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-CLPOLFAIL : No support for client policy with policing in class-de-  
fault and marking in custom class
```

Explanation An internal error occurred during installing qos policy.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-NOACCOUNTSTATS : account stats entry not found for class [int].[int],  
target [int]
```

Explanation An internal error occurred when looking up account statistics.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show policy-map interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-NOPOLICERSTATS : policer stats entry not found for class [int].[int],  
target [int]
```

Explanation An internal error occurred when looking up policer statistics.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show policy-map interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-NOSETSTATS : set stats entry not found for class [int].[int], target  
[int]
```

Explanation An internal error occurred when looking up set statistics.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show policy-map interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-QOSAPIPARAM : Internal QOS API error.
```

Explanation An internal API error occurred. QOS configuration may be limited.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-QOSCLASSDEL : Error trying to remove class [chars] from policymap [chars]
```

Explanation An operation to remove a class from a policy has failed due to an internal error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show policy-map** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-QOSGIDBSP : Service policy [[chars]] installation error: invalid interface type [dec]
```

Explanation An invalid interface type was encountered when trying to configure a service policy. This service policy could not be installed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show policy-map** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-QOSIDBSP : Service policy [[chars]] installation error: invalid interface type [dec]
```

Explanation An invalid interface type was encountered when trying to configure a service policy. This service policy could not be installed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show policy-map** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-QOSTDLMARSHAL : Failed to copy more than [dec] bytes of message [chars], length [dec] into IPC buffer
```

Explanation An internal error occurred when trying to build an IPC message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-QOSTMPLCREATEFAIL : QoS template interface creation failed for policy [chars]: [chars]
```

Explanation An error occurred during template interface creation

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-QOSTMPLDBERROR : Failed to [chars] record for policymap [chars], err [chars]
```

Explanation Database operation failed for record of the policymap

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-QOSTMPLDELETEFAIL : QoS template interface deletion failed for policy [chars]: [chars]
```

Explanation An error occurred during template interface deletion

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-3-QOSTMPLNONEXIST : QoS template does not exist in [chars] for policymap [chars]
```

Explanation QoS template information does not exist

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-4-CLMODIFYFAIL : classmap [chars] is currently used by policymap, please remove policymap from all targets before the modification
```

Explanation An internal error occurred when classmap being modified

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-4-MPOLDMVPNGRE : Only Shape and/or BRR is allowed on the QoS policy on GRE tunnel on MPoL hierarchy
```

Explanation An error occurred during MPoL check between DMVPN and GRE tunnel QoS policy

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-4-NOFAIRQONVC : fair-queue can not be configured on the parent queue of an ATM VC, use child queue instead
```

Explanation Configuring fair-queue on the parent queue of an ATM VC is not supported

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-4-QIDGENFAIL : qid generation failed, reverting to default
```

Explanation An internal error occurred during platform qos initialization.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search

F

Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-4-QOSSTACK : Failed to install all classes for policymap [chars], excessive stack usage
```

Explanation An operation to configure the classes within a policymap has failed due to a resource issue. QoS configuration for this policymap is unlikely to work.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show policy-map** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-4-QOSUBR : qos can not be attached to the target with UBR configured
```

Explanation An error occurred to attach qos to ATM VC/VP target with UBR configured

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_QOS-6-QOSCLASSEXIST : class [chars] (id [int]) in policymap [chars] (id [int]) already exists
```

Explanation This is an informational message and no action is required.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show policy-map** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_SC

```
%FMANRP_SC-3-DBGTDLMMSGMARSHAL : Failed to copy debug SC request message to IPC buffer
```

Explanation This operation to build a TDL message for debug SC command has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%FMANRP_SC-3-INTFTDLMSGMARSHAL : Failed to copy interface config message to IPC
buffer for Interface [chars] ([hex]), operation [chars]
```

Explanation This operation to build a TDL message for interface configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SC-3-SCIOSDENQUEUE : Failed to enqueue SC [chars] message for transmission
```

Explanation This operation to enqueue an IPC message for sending has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SC-3-SCTXTDLMSGMARSHAL : Failed to copy service context config message to
IPC buffer for sctx_name id [dec]
```

Explanation This operation to build a TDL message for service context configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SC-4-NOSERVICECTX : A mapping structure is null
```

Explanation An unexpected condition has occurred which is due to the absence of a SC mapping structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SC-4-SCBADACTION : Invalid action [dec] for SC configuration
```

Explanation An unexpected condition has occurred which is invalid action for a SC configuration.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SC-4-SCNOSWIDB : Sub-interface is null
```

Explanation An unexpected condition has occurred which is due to the absence of a swidb structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** **show ip interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_SSLVPN

```
%FMANRP_SSLVPN-3-AAATDLERR : [chars][chars]. [chars]
```

Explanation An unexpected condition has occurred in processing AAA request/reply message causing AAA handling failure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SSLVPN-3-CFGSTATUSERR : [chars]: [chars]
```

Explanation An unexpected condition has occurred when got status of configuration

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SSLVPN-3-CONDDEBERR : [chars]. [chars]
```

Explanation An unexpected condition has occurred in processing conditional debug message

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%FMANRP_SSLVPN-3-GWERR : Failed [chars]: [chars]
```

Explanation An unexpected condition has occurred in configuration processing causing configuration failure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SSLVPN-3-PKIERR : Failed [chars]: [chars]
```

Explanation An unexpected condition has occurred in configuration processing causing configuration failure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SSLVPN-3-RRICHUNKERR : [chars]
```

Explanation Error has occurred when requested memory for SSLVPN route handling

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SSLVPN-3-RRITDLERR : [chars][chars]. [chars]
```

Explanation An unexpected condition has occurred in processing of SSLVPN route inject/remove message

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SSLVPN-3-STATSCLEARERR : Unable to send clear WEB VPN context stats message.
[chars] ([dec])
```

Explanation This operation to build a TDL messages for WEB VPN context stats clearing has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance

F

Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SSLVPN-3-STATSGUPDERR : Update WEB VPN context stats error. [chars] ([dec])
```

Explanation An unexpected condition has occurred when updating global sslvpn statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SSLVPN-3-STATSWVUPDERR : [chars]: [chars]
```

Explanation An unexpected condition has occurred when updating ssl web vpn context statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SSLVPN-3-VWCONFERR : Failed [chars]: [chars]
```

Explanation An unexpected condition has occurred during WebVPN Context configuration causing failure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_SSLVPN-4-AAAFRIPWARN : [chars]Invalid framed ip address [IP_address] received from AAA. Not sending user config
```

Explanation Wrong AAA server config.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_VRF

```
%FMANRP_VRF-3-API_FAILED : NULL
```

Explanation A call to the API of another component has indicated an error.

F

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%FMANRP_VRF-3-EINVAL : NULL
```

Explanation An unexpected input value to a function was incorrect

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

FMFP

```
%FMFP-3-DP_NOMEM : DP not enough memory. [chars]
```

Explanation An object download to DP failed because the memory of DP is not enough.

Recommended Action Run show platform resource to see the memory usage

```
%FMFP-3-INTERFACE_OBJECT_NOT_FOUND : Interface object lookup by [chars] not found
for interface [int]
```

Explanation The desired interface object was not found.

Recommended Action Examine the interface state in the operating system, route processor (RP) and forwarding processor (FP) forwarding manager logs.

```
%FMFP-3-OBJ_DWNLD_TO_CPP_STUCK : AOM download to CPP stuck
```

Explanation An object download from FMAN-FP to lower layer has taken more than 1 hour. It can be caused by incomplete configuration or software defects

Recommended Action Run show platform software object-manager fp [active|standby] [pending-issue-update|pending-ack-update|pending-issue-batch|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. Use 3600 for min_pending_time to see context that have been pending for more than an hour. 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 : [chars] download to DP failed
```

Explanation An object has failed to download to the data plane

Recommended Action Examine the list of error objects in the forwarding processor (FP) forwarding manager asynchronous object logs.

FMFP_ACL

```
%FMFP_ACL-3-ACL_LIMIT_EXCEEDED : ACL [chars] exceeded limitation of [int] ACEs per  
ACL
```

Explanation A software limitation has been exceeded.

Recommended Action Reduce the access control list (ACL) configuration. A reboot of the forwarding processor (FP) is recommended.

```
%FMFP_ACL-3-ACL_MODIFY_FAILED : ACL:[chars] modification through object group edit  
failed
```

Explanation Object-group used in the ACL was modified. Those changes could not be accommodated in the ACL

Recommended Action Fix the object-group changes. Delete ACL and reconfigure it

```
%FMFP_ACL-3-ACL_OBJECT_DOWNLOAD : [chars][chars] fail to download because [chars].
```

Explanation 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.

Recommended Action 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 : ACL [chars] protocol does not match what was previ-  
ously configured
```

Explanation 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

Recommended Action Remove the conflicting ACL or the conflicting ACL references.

```
%FMFP_ACL-3-SGACL_OBJECT_DOWNLOAD : SGACL Cell ([dec] [dec]) policy [chars] fail to  
download because [chars].
```

Explanation The SGACL policy has failed to download. This could be due to a hardware or software resource limitation or a software defect.

Recommended Action Check the logs for information on the relevant object download states. Remove the SGACL policy for that cell, correct the error and reconfigure it

H

FMFP_QOS

`%FMFP_QOS-6-QOS_STATS_PROGRESS : statistics are progressing`

Explanation QoS statistics are now progressing normally. This is an informational message.

Recommended Action No action is required.

`%FMFP_QOS-6-QOS_STATS_STALLED : statistics stalled`

Explanation QoS statistics are temporarily stalled. This is an informational message.

Recommended Action No action is required.

H

HANDOFF_FUD

`%HANDOFF_FUD-0-HOFPGA_UPGRADE_FAILED : Handoff FPGA upgrade/downgrade failed after 2 attempts. Possible Hw-fault`

Explanation Handoff FPGA upgrade/downgrade failed after 2 attempts. This could happen due to a hardware fault, corrupt firmware file or possible flash programming issue.

Recommended Action Downgrade to a lower version image to update the FPGA to a working firmware image. If the same fails, it is possibly a hardware fault. A hardware change is required. Additionally, collect Nile manager logs and provide the same to a Cisco technical support representative.

`%HANDOFF_FUD-6-FPGA_INTERRUPTS_ERROR : Handoff FPGA encountered interrupts which are not getting cleared`

Explanation Handoff FPGA encountered interrupts. Software is unable to clear them by processing. This is message to know when the error occurs

Recommended Action Reload of the box is the only way to remove this error. This is temporary fix to know when the error occurs

`%HANDOFF_FUD-6-HOFPGA_DOWNGRADE : Handoff FPGA is downgrading to [hex] from current FPGA version [hex], as downgrade is required for current release`

Explanation Handoff FPGA needs an upgrade to the fw bundled with image

Recommended Action No user action is necessary. This is an informational message indicating normal system operation.

`%HANDOFF_FUD-6-HOFPGA_DOWNGRADE_STARTED : Starting Handoff FPGA downgrade`

Explanation Handoff FPGA is going to be downgraded with the firmware bundled with the image. Informational message only.

H

Recommended Action No user action is necessary. This is an informational message indicating normal system operation.

```
%HANDOFF_FUD-6-HOFPGA_UPD_OVERRIDE_SET : ROMMON variable HOFPGA_UPD_OVERRIDE is set.
Skipping upgrade for HoFPGA.
```

Explanation HoFPGA upgrade is being skipped since ROMMON variable HOFPGA_UPD_OVERRIDE is set. Set HOFPGA_UPD_OVERRIDE to 0 to prevent upgrade override

Recommended Action No user action is necessary. This is an informational message indicating normal system operation.

```
%HANDOFF_FUD-6-HOFPGA_UPGRADE : Handoff FPGA upgrade required. Current FPGA version
is [hex], Image fw version is [hex]
```

Explanation Handoff FPGA needs an upgrade to the fw bundled with image

Recommended Action No user action is necessary. This is an informational message indicating normal system operation.

```
%HANDOFF_FUD-6-HOFPGA_UPGRADE_SKIPPED : Handoff FPGA upgrade being skipped, Current
FPGA version is [hex], Image fw version is [hex].
```

Explanation Handoff FPGA upgrade is being skipped since the HoFPGA fw version > minimum required fw version.

Recommended Action No user action is necessary. This is an informational message indicating normal system operation.

```
%HANDOFF_FUD-6-HOFPGA_UPGRADE_STARTED : Starting Handoff FPGA upgrade
```

Explanation Handoff FPGA is going to be upgraded with the firmware bundled with the image. Informational message only.

Recommended Action No user action is necessary. This is an informational message indicating normal system operation.

```
%HANDOFF_FUD-6-HOFPGA_UPGRADE_SUCCESSFUL : Handoff FPGA upgrade/downgrade succeeded
```

Explanation Handoff FPGA upgrade/downgrade successfully.

Recommended Action No user action is necessary. This is an informational message indicating normal system operation.

```
%HANDOFF_FUD-6-QDR_MULTI_BIT_ERROR_END : Handoff FPGA could encounter MBE, check at
end of create update BFD session
```

Explanation Handoff FPGA QDR cntrl_reg is changed qdr_ext_ecc_gen and qdr_ext_ecc_chk is cleared. This could lead to QDR MBE Errors. This is temporary message to know when the error occurs

Recommended Action Reload of the box is the only way to remove this error. This is temporary fix to know when the error occurs

```
%HANDOFF_FUD-6-QDR_MULTI_BIT_ERROR_INIT : Handoff FPGA could encounter MBE, check at
init of handoff fpga
```

H

Explanation Handoff FPGA QDR cntrl_reg is changed qdr_ext_ecc_gen and qdr_ext_ecc_chk is cleared This could lead to QDR MBE Errors. This is temporary message to know when the error occurs

Recommended Action Reload of the box is the only way to remove this error. This is temporary fix to know when the error occurs

```
%HANDOFF_FUD-6-QDR_MULTI_BIT_ERROR_INIT_DONE : Handoff FPGA could encounter MBE,
check after init of QDR in handpff fpga
```

Explanation Handoff FPGA QDR cntrl_reg is changed qdr_ext_ecc_gen and qdr_ext_ecc_chk is cleared. This could lead to QDR MBE Errors. This is temporary message to know when the error occurs

Recommended Action Reload of the box is the only way to remove this error. This is temporary fix to know when the error occurs

```
%HANDOFF_FUD-6-QDR_MULTI_BIT_ERROR_START : Handoff FPGA could encounter MBE, check
at start of create update BFD session
```

Explanation Handoff FPGA QDR cntrl_reg is changed qdr_ext_ecc_gen and qdr_ext_ecc_chk is cleared. This could lead to QDR MBE Errors. This is temporary message to know when the error occurs

Recommended Action Reload of the box is the only way to remove this error. This is temporary fix to know when the error occurs

```
%HANDOFF_FUD-6-QDR_MULTI_BIT_INTERRUPT : Handoff FPGA could encounter MBE Interrupt
```

Explanation Handoff FPGA QDR cntrl_reg is changed qdr_ext_ecc_gen and qdr_ext_ecc_chk is cleared. This could lead to QDR MBE Errors. This is temporary message to know when the error occurs

Recommended Action Reload of the box is the only way to remove this error. This is temporary fix to know when the error occurs

HMAN

```
%HMAN-2-INITIALIZATION_FAILED : Host Manager initialization failed.
```

Explanation Initialization of the host manager failed.

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

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

H

Explanation Setup of a console service failed.

Recommended Action Check the host manager launch parameters and correct as required.

```
%HMAN-3-HOSTNAME_SET_FAILED : Failed to set hostname: [chars]
```

Explanation The host manager received notification that the system hostname has been set. The host manager failed to pass this value to the ASR kernel.

Recommended Action 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 tools and utilities provided at <http://www.cisco.com/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

HW_IDPROM_ENVMON

```
%HW_IDPROM_ENVMON-2-ACT2_UDI_DATA_INVALID : The act2 udi secure area format mismatch with unsecure area
```

Explanation 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 more information.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%HW_IDPROM_ENVMON-3-HW_IDPROM_CHECKSUM_INVALID : The idprom contains an invalid checksum in a sensor entry. Expected: [hex], calculated: [hex]
```

Explanation If this error occurs then parsing of the environmental monitoring data is aborted. Environmental monitoring will be either incomplete or absent entirely.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%HW_IDPROM_ENVMON-3-HW_IDPROM_FIELD_INVALID : The idprom contains an invalid environmental monitoring field.
```

Explanation If this error occurs then parsing of the environmental monitoring data is aborted. Environmental monitoring will be either incomplete or absent entirely.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

HW_PFU

```
%HW_PFU-3-PFU_IDPROM_CORRUPT : The PEM/FM idprom could be read, but is corrupt in slot P[dec] The system will run without environmental monitoring for this component
```

Explanation 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.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%HW_PFU-3-PFU_IDPROM_READ_ERR : Could not read the PEM/FM idprom in slot P[dec].The system will run without environmental monitoring for this component
```

Explanation 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.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/> . Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

IM

```
%IM-3-UNSUPPORTED_DATA : Data conversion error ([chars], [hex])
```

Explanation An internal software error has occurred when converting the data specified in the message from one representation to another.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

IM_EEPROM

```
%IM_EEPROM-3-FIELD_NOT_FOUND : [chars]: Failed to find content of field type [hex]
with data size = [dec] bytes. The EEPROM might require an update.
```

Explanation System failed to find the content of the indicated field type from the IM EEPROM. The format of the EEPROM of the indicated IM might not be up to date.

Recommended Action Retry the operation. If the problem persist, search Bug Toolkit on the Cisco web-site. If you do not find an existing bug, then gather the **output of <CmdBold>show idprom module<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg> <CmdBold>dump<NoCmdBold>** command or <CmdBold>show diag subslot<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg> command depending on the support of the platform and contact your technical support representative with the gathered information.

```
%IM_EEPROM-3-FORMAT_ERROR : [chars]: [chars]. The EEPROM might require an update.
```

Explanation A format error has been detected in the EEPROM of the indicated IM. The type of error is indicated in the error message.

Recommended Action Retry the operation. If the problem persist, search Bug Toolkit on the Cisco web-site. If you do not find an existing bug, then gather the **output of <CmdBold>show idprom module<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg> <CmdBold>dump<NoCmdBold>** command or <CmdBold>show diag subslot<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg> command depending on the support of the platform and contact your technical support representative with the gathered information.

INTERCHASSIS_REDUNDANCY

```
%INTERCHASSIS_REDUNDANCY-4-STDBY_PRESENT : Removal of standby RP in location [chars]
is recommended for inter-chassis redundancy configuration
```

Explanation Removal of standby RP from the chassis is recommended for inter-chassis redundancy

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOMD

```
%IOMD-2-INITFAIL : IOMD initialization error: [chars] Slot [int] Subslot [int]
```

Explanation A failure occurred during initialization of IOMD. The line card that generated the message is not functional.

Recommended Action No immediate action is required on the system if the SPA is operational. Research and attempt to resolve the issue using the hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the

<CmdBold>show logging<NoCmdBold>, <CmdBold>show monitor event-log spa all<NoCmdBold> and <CmdBold>show tech-support<NoCmdBold> commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%IOMD-2-IPC_ERR : IOMD IPC error: [chars] Slot [int] Subslot [int]
```

Explanation A failure in communication occurred to another process

Recommended Action No immediate action is required on the system if the SPA is operational. Research and attempt to resolve the issue using the hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the <CmdBold>show logging<NoCmdBold>, <CmdBold>show monitor event-log spa all<NoCmdBold> and <CmdBold>show tech-support<NoCmdBold> commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%IOMD-2-TIMERFAIL_CXT : IOMD timer context error
```

Explanation A failure occurred during context retrieval for a timer

Recommended Action No immediate action is required on the system if the SPA is operational. Research and attempt to resolve the issue using the hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the <CmdBold>show logging<NoCmdBold>, <CmdBold>show monitor event-log spa all<NoCmdBold> and <CmdBold>show tech-support<NoCmdBold> commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%IOMD-3-CREATE_TDLH_FAILURE : Failed to create SPA [dec]/[dec] handle
```

Explanation Failed to create message handle for SPA communication.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-CREATE_TDLMSG_FAILURE : Failed to create [chars] message for [chars].
```

Explanation Failed to create/allocate necessary TDL message for SPA communication.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool:

<https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-DISPATCH_INIT_TDLH_FAILURE : Failed to initialize dispatch path for SPA  
[dec]/[dec] handle
```

Explanation Failed to initialize dispatch path handle for SPA communication.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-DOMAIN_TDLH_FAILURE : [chars], rc = [dec]
```

Explanation Failed to bind message handle for SPA communication.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-HAIPC_FAIL : Failed to [chars] reason: [chars].
```

Explanation Failure in handling IOMD HA IPC.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-HARFROLE_FAIL : Failed to [chars].
```

Explanation Failure to establish start client or server.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-INVALID_HANDLE : Failed to get a valid IPC handle for type [int], slot [dec], subslot [dec].
```

Explanation The client handle was found to be NULL for the given type/slot/subslot.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-INVALID_SLOT_NUM : slot= [dec], max slot = [dec]
```

Explanation An invalid slot number is specified in one of the internal APIs.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-INVALID_SUBSLOT_NUM : subslot= [dec], max subslot = [dec]
```

Explanation An invalid subslot number is specified in one of the internal APIs.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-INVALID_TDL_CCAPI_USAGE :
```

Explanation Incorrect usage of an internal API that should only be used on CC.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-IPCALLOCFAIL : Failed to allocate IPC buffer [chars]
```

Explanation The SPA failed to allocate a buffer for communication with the Route Processor (ASR1000-RP).

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

```
%IOMD-3-ISR_RC_ERROR : ISR return code out of range. rc=[dec]
```

Explanation The ISR error return code is out of range.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-MARSHAL_ERR : Failed to marshal [chars].
```

Explanation Failure to marshal tdl message

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-MESSAGE_ERROR : Bay [dec]: [chars]
```

Explanation An unexpected error has occurred.

Recommended Action 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, Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-MODULE_MESSAGE : [chars]
```

Explanation An error is detected by the firmware running on the module in the slot and subslot specified in the message

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-QUEUE_FAIL : Failed to dequeue because [chars].
```

Explanation Failure to handle events in queue.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-RFROLE_FAIL : Failed to update IM role for reason: [chars]
```

Explanation Failure to handle role update.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-SETUP_TDLH_FAILURE : Failed to set the alloc/free handler for SPA  
[dec]/[dec] handle
```

Explanation Failed to set the alloc/free handler for SPA communication.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-TIMER_FAIL : Failed to [chars].
```

Explanation Failure in timer processing.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-3-UNSUPPORTED_DATA : Data conversion error ([chars], [hex])
```

Explanation An internal software error has occurred when converting the data specified in the message from one representation to another.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to

gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD-6-TDLMSG_INCOMPATIBLE : Failed to copy message [chars] to buffer, not allowed
for current domain.
```

Explanation Failure to marshal a message indicates an incompatibility with the intended recipient.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOMD_ETHER_COMMON_ERROR

```
%IOMD_ETHER_COMMON_ERROR-3-RATEADAPTFAIL : IOMD failed to send rate adapt message
for port [dec] speed [dec] duplex [dec] reason:[chars]
```

Explanation IOMD failed to send message to nile

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOMD_ETHER_GEIM

```
%IOMD_ETHER_GEIM-3-FIFO_OVERFLOW : [chars] fifo overflow occurred for port [dec]
```

Explanation A hardware error in phy has occurred

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD_ETHER_GEIM-3-INTERRUPT_ERR : interrupt handling error [chars]
```

Explanation Interrupt could not be handled because of internal sw error

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOMD_ETHER_GEIM_UEA

```
%IOMD_ETHER_GEIM_UEA-4-BADPOINTER : Function [chars] detected an invalid [chars]
pointer of %08lx, ignoring
```

Explanation A software error has occurred, this message is displayed when an invalid pointer is detected.

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD_ETHER_GEIM_UEA-4-SSFP_PORT_LIMIT_EXCEED : IOMD Detects Maximum No of
SSFP:[dec] Inserted
```

Explanation Exceeding Maximum SSFP transceivers(>6) Insertion

Recommended Action Need to remove the SSFP if it exceeds the Maximum number of supported SSFP

IOMD_IMFPGA

```
%IOMD_IMFPGA-3-I2C_READ : An I2C read has failed for addr: [hex] reg: [hex]
```

Explanation An attempt to read the I2C bus has failed. This error could be caused by a hardware or software defect.

Recommended Action Examine the logs for I2C driver errors.

```
%IOMD_IMFPGA-3-I2C_WRITE : An I2C write has failed for addr: [hex] reg: [hex] data:
[hex]
```

Explanation An attempt to write to the I2C has failed. This error could be caused by a hardware or software defect.

Recommended Action Examine the logs for I2C driver errors.

```
%IOMD_IMFPGA-3-IM_DEVINIT_STATUS : [chars] ----> [dec]
```

Explanation Test msg to indicate status of CEM FPGA Firmware programming

Recommended Action None - do nothing

```
%IOMD_IMFPGA-3-MDIO_READ : An MDIO read has failed for addr: [hex] reg: [hex]
```

Explanation An attempt to read the MDIO bus has failed. This error could be caused by a hardware or software defect.

Recommended Action Examine the logs for MDIO driver errors.

```
%IOMD_IMFPGA-3-MDIO_WRITE : An MDIO write has failed for addr: [hex] reg: [hex]
data: [hex]
```

Explanation An attempt to write to the MDIO has failed. This error could be caused by a hardware or software defect.

Recommended Action Examine the logs for MDIO driver errors.

IOMD_INFRA

```
%IOMD_INFRA-3-I2C_READ : An I2C read has failed because [chars]
```

Explanation An I2C read has failed. This could be due to a hardware or software defect.

Recommended Action 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-I2C_WRITE : An I2C write has failed because [chars]
```

Explanation An I2C write has failed. This could be due to a hardware or software defect.

Recommended Action 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 : IOMd fast thread event ([dec]).
```

Explanation IOMd fast thread event

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD_INFRA-3-INVALID_BAY_NUM : An invalid bay number is specified in one of the in-
ternal APIs. bay=[dec] max_bay=[dec]
```

Explanation Invalid bay number to find the TDL domain

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD_INFRA-3-INVALID_SLOT_NUM : An invalid slot number is specified in one of the
internal APIs. slot=[dec] max_slot=[dec]
```

Explanation Invalid slot number to find the TDL domain

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD_INFRA-3-IPCALLOCFAIL : Failed to allocate IPC buffer [chars]
```

Explanation The IM failed to allocate a buffer for communication with RSP

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD_INFRA-3-IPCSENDFAIL : IOMD failed to send a message [chars] reason: [chars]
```

Explanation IOMD failed to send message to the RP

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD_INFRA-3-LINECARDDIAGSFAILED : Module [chars] in Slot [dec] failed online diag-
nostics. Please use 'show post' for more details
```

Explanation Online Diag has failed. This could be due to a hardware or software defect.

Recommended Action 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.

```
%IOMD_INFRA-4-BADPOINTER : Function [chars] detected an invalid [chars] pointer of
%08lX, ignoring
```

Explanation A software error has occurred, this message is displayed when an invalid pointer is detected.

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD_INFRA-4-INTR_OVER_LIMIT : IOMd main thread disabled interrupt for [int] msec.
```

Explanation IOMd main thread process disabled interrupt too long

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOMD_INFRA-6-TDLMSG_INCOMPATIBLE : Failed to copy message [chars] to buffer, not
allowed for current domain.
```

Explanation Failure to marshal a message indicates an incompatibility \ with the intended recipient.

Recommended Action 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/c/en/us/support/index.html>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSD

```
%IOSD-3-BIPC_REJECT : Could not accept ipc connection: [chars]
```

Explanation This error occurs if shell-manager has denied an ipc connection request from IOS.

Recommended Action Check the connection request parameters.

```
%IOSD-3-TDL_PROPERTIES : Could not set message properties for connection: [chars]
```

Explanation This error occurs if shell-manager is unable to set message properties for the IOS-smann connection

Recommended Action Check the connection request parameters.

IOSD_INFRA

```
%IOSD_INFRA-6-IFS_DEVICE_OIR : Device [chars] [chars]
```

Explanation USB inserted/removed

Recommended Action No action is required.

IOSXE_APS

```
%IOSXE_APS-3-CCCONFIGFAILED : Pair config for interface [chars] Group [dec] failed
```

Explanation Pair config for interface has failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_APS-3-CONFIG_FAIL : config change for interface [chars] Group [dec] failed
```

Explanation config for an interface to forwarding plane has failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_APS-3-DOWNLOADFAIL : Unable to download [chars] message to [chars]
```

Explanation An unexpected condition has occurred which resulted in a configuration not being sent to the reported process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_APS-3-FLOWCONFIGTOCCFAILED : Flow id to cc for interface [chars] Group [dec] failed
```

Explanation Flow id to cc for an interface has failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_APS-3-FLOWIDALLOCFAILED : Allocation of APS flow ID with manager failed for
interface [chars] group [dec]
```

Explanation An unexpected condition has occurred that allocation of APS flow ID. failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_APS-3-FLOWIDDELETIONFAILED : Deletion of APS flow ID with manager failed for
interface [chars] group [dec]
```

Explanation An unexpected condition has occurred that deletion of APS flow ID.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_APS-3-GROUP_CONFIG_FAIL : Group change for interface [chars] Group [dec]
failed
```

Explanation Group change for interface has failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_APS-3-PAIR_CONFIG_FAIL : Pair config for interface [chars] Group [dec] failed
```

Explanation Pair config for interface has failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_AUTHENTICATE

%IOSXE_AUTHENTICATE-2-AUTHENTICATE_FAILED : The platform authentication failed

Explanation WDC authentication failed

Recommended Action Check if WDC is programmed on this device

IOSXE_CIDB

%IOSXE_CIDB-3-ALLOC : Failed to allocate message for CIDB message

Explanation When attempting to program the dataplane with a CIDB object, there was not enough memory to allocate the message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_CIDB-3-MESSAGE : Failed to send message for CIDB object

Explanation When the cidb object was being prepared to be sent to the data plane, there was an error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_CRYPTOBW

%IOSXE_CRYPTOBW-3-CONF_FAILED : Configuration failed

Explanation An error occurred when the crypto throughput configuration was attempted.

Recommended Action None

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

Explanation Users need to accept EULA to activate the license

Recommended Action Accept EULA for crypto throughput license

%IOSXE_CRYPTOBW-3-INVALID_CONFIG : No valid license found for the configured crypto throughput level: [chars] kbps

Explanation The boot up crypto throughput has been set to non-default level without having the valid license.

Recommended Action Install valid crypto throughput license

IOSXE_CSLIFS

```
%IOSXE_CSLIFS-3-ERROR_SETTING : Error setting default file system ([dec])
```

Explanation There is an error happened after calling function ifs_set_default_directory

Recommended Action Check the csl filesystem

IOSXE_CXSC

```
%IOSXE_CXSC-3-ACTION : Unknown proposition action ([dec])
```

Explanation When the proposition was being sent to the data plane, the action was unknown error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_CXSC-3-ALLOC : Failed to allocate message for proposition
```

Explanation When attempting to program the dataplane with a CXSC proposition object, there was no enough memory to allocate the message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_CXSC-3-BAD_PROPOSITION : Proposition obj corrupt
```

Explanation When the proposition was being sent to the data plane, the object itself is corrupt.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_CXSC-3-BAD_PROTOCOLPACK : Invalid Protocol Pack object
```

Explanation When the Protocol Pack was being sent to the data plane, the object's contents were invalid.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_CXSC-3-BAD_SUMMARY : Summary obj corrupt
```

Explanation When the proposition summary was being sent to the data plane, the object itself is corrupt.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_CXSC-3-FILESYSTEM_ERR : FileSystem Error ([chars]): Unable to Copy File from [chars] to [chars]
```

Explanation Unable to copy the NBAR Protocol Pack File to the file system for subsequent loading. The system will revert to the previously loaded Protocol Pack.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_CXSC-3-INSUFFICIENT_ALLOC_IOSXE_VER : Insufficient memory allocated for IOSXE version String
```

Explanation The input IOSXE Version String has insufficient memory to hold the IOSXE Version.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_CXSC-3-INSUFFICIENT_ALLOC_NBAR_VER : Insufficient memory allocated for NBAR Engine Version String
```

Explanation The input NBAR Engine Version string has insufficient memory to hold the NBAR Engine Version.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_CXSC-3-MESSAGE : Failed to send message for proposition
```

Explanation When the proposition was being prepared for sending to the data plane, there was an error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_CXSC-3-PLATFORM_TYPE : Unrecognised platform type. CPU ID [dec]
```

Explanation The platform that the cxsc service is being installed on is not recognised. The most likely cause is that this platform is not supported.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_CXSC-3-RF_INIT : Failed to initialize CXSC Redundancy Facility client
```

Explanation An unexpected condition occurred where the CXSC Redundancy Facility failed to initialize.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_CXSC-3-STATISTICS_ALLOCATION : Unable to allocate space for statistics
```

Explanation During initialization, there was failure in the allocation of the memory to gather the statistics. It is non fatal, but after seeing this message, the CXSC subsystem will not be able to gather statistics.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_CXSC-3-STILE_ACTIVATE : Failed to activate NBAR classification: ([dec])
```

Explanation An unexpected condition occurred where the CXSC NBAR protocol classification failed to activate.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_CXSC-4-DUAL_RP_UNSUPPORTED : Dual RPs are not supported in conjunction with
CXSC
```

Explanation CXSC is not supported in a dual RP environment. To resolve this warning, either unconfigure CXSC or remove the redundant Route Processor.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_DSP

```
%IOSXE_DSP-3-ENQUEFAIL : Enqueue of TDL message failed ([chars]).
```

Explanation An unexpected condition has occurred which resulted in configuration, resource, or call details not being forwarded.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_EPA

```
%IOSXE_EPA-3-ACT2_AUTHENTICATION_FAILURE : slot=[dec] subslot=[dec], spa_type=[hex],
lc_type=[hex].
```

Explanation ACT2 dev authentication Failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_EPA-3-AUTONEG_CFG_ERR : interface [chars] autoneg state '[chars]' is incom-
patible with transciever. Remove '[chars]' to allow the transceiver.
```

Explanation Autoneg Config is not compatible. Remove autoneg config on the interface to allow the transceiver

Recommended Action Remove the negotiation auto config or reinsert the previously enabled transceiver.


```
%IOSXE_EPA-3-CREATION_FAILURE : slot=[dec] subslot=[dec], spa_type=[hex],  
lc_type=[hex].
```

Explanation Failed to create a SPA object.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_EPA-3-NULL_DEVOBJ_PTR :
```

Explanation Pointer to a DEVOBJ object is NULL.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_EPA-3-NULL_DEVPSEQ_PTR :
```

Explanation Pointer to a DEVPSEQ object is NULL.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_EPA-3-NULL_EPA_PTR :
```

Explanation Pointer to an EPA object is NULL.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_EPA-3-NULL_EPASENSOR_PTR :
```

Explanation Pointer to a DEVSENSOR object is NULL.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to

gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_EPA-3-NULL_FPGA_PTR :
```

Explanation Pointer to a FPGA object is NULL.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_EPA-3-NULL_PORT_PTR :
```

Explanation Pointer to a PORT object is NULL.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_EPA-3-NULL_VFT :
```

Explanation Pointer to a DEVSENSOR object is NULL.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_EPA-3-NULL_VSC_PHY_INFO_PTR :
```

Explanation Pointer to a VSC PHY INFO object is NULL.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_EPA-3-UNSUPPORTED_XCVR : Transceiver type [chars] is not allowed on spa
[chars], port [dec],
```

Explanation This transceiver is not allowed on the SPA

Recommended Action Consult the documentation and ensure supported transceivers are plugged into the SPA

```
%IOSXE_EPA-3-XCVR_EC_BWMISMATCH : Transceiver bandwidth is incompatible with Port-
channel[dec] allowed bandwidth. Remove 'channel-group [dec]' config for interface
[chars] to allow the transceiver
```

Explanation The interface port into which the transceiver is inserted is part of a Port-channel. The Port-channel has member links whose bandwidth doesn't match with the inserted transceiver's bandwidth. Since, port-channel cannot allow heterogenous bandwidth links, this transceiver is not allowed in to the port.

Recommended Action Remove the channel-group config for the port where transceiver is inserted or insert a transceiver whose bandwidth is compatible with the port-channel bandwidth

```
%IOSXE_EPA-3-XCVR_PROHIBIT : Transceiver is prohibited to come online for interface
[chars]
```

Explanation XCVR is prohibited on the interface

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_ETHERCHAN

```
%IOSXE_ETHERCHAN-3-LINK_MTU_FAIL : Failure in changing MTU of interface [chars] to
port-channel [chars] MTU
```

Explanation The MTU for the interface mentioned in the message cannot be changed to match the MTU configured on the port channel interface

Recommended Action Remove the link mentioned in the message from the port-channel group

```
%IOSXE_ETHERCHAN-6-LINK_MTU : Interface [chars] MTU set to port-channel [chars] MTU
[dec]
```

Explanation The MTU for the interface mentioned in the message is changed to match the MTU configured on the port channel interface

Recommended Action No action is required.

IOSXE_EZMENU

```
%IOSXE_EZMENU-3-VIRT_SRVC_REGISTER : Failed to register '[chars]' with virtual service manager
```

Explanation An unexpected error has occurred while trying to register this virtual service with the virtual service manager. This has prevented the virtual service from being enabled/disabled.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP

```
%IOSXE_FMANRP-3-EPOCHTDLMSGMARSHAL : Failed to copy epoch TDL message to IPC buffer, epoch number [dec]
```

Explanation This operation to build a TDL messages for epoch message has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP-3-MSGENQERR : Unable to enqueue IPC messages to IOS IPC queue. Message: [chars].
```

Explanation An unexpected condition has occurred while IOS trying to enqueue IPC message to IOS IPC queue in order to send the message to Forwarding Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP-3-MSGMARSHALERR : Unable to copy IPC messages into transport buffer. Message: [chars]
```

Explanation An unexpected condition has occurred while IOS trying to copy IPC message to transport buffer in order to send the message from IOSd to Forwarding Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_FMANRP-4-MSGDISPATCH : Unable to dispatch received TDL message '[chars]' from Forwarding Manager. LUID: [chars]
```

Explanation An unexpected condition has occurred while IOS trying to dispatch the TDL message handler functions for received TDL messages from Forwarding Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP-4-MSGDISPATCHNULL : TDL messages NULL from IOS.
```

Explanation An unexpected condition has occurred while IOS trying to dispatch the TDL message handler functions for received TDL messages from Forwarding Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP-4-MSGIPCERR : Unable to process received IPC messages from Forwarding Manager, error: [chars].
```

Explanation An unexpected condition has occurred while IOS trying to process received IPC message from Forwarding Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP-4-MSGNONTDLSTATSEERR : Unable to process received non-TDL stats message from Forwarding Manager, error: [chars] ([dec]).
```

Explanation An unexpected condition has occurred while IOS trying to process received non-TDL stats message from Forwarding Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_ADJ

```
%IOSXE_FMANRP_ADJ-3-ENCSize : Invalid encap length [dec] which is larger than max allowed [dec] bytes
```

Explanation An unexpected condition has occurred which is due to invalid adjacency encapsulation size being larger than the maximum value allowed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_ADJ-3-ENQUEFAIL : Unable to send [chars] [chars] message to Forwarding Manager Process
```

Explanation An unexpected condition has occurred which resulted in a configuration not being sent to the Forwarding Manager Process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_ADJ-3-NOADJ : Adjacency entry is null
```

Explanation An unexpected condition has occurred which is due to the absence of an adjacency entry structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show adjacency** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_ADJ-3-NOFIBHWIDB : FIB Interface [chars] is null
```

Explanation An unexpected condition has occurred which is due to the absence of a FIB interface structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show adj** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_CCE

```
%IOSXE_FMANRP_CCE-3-CCE_CLASS_CREATE : Unable to create class [int].[int]
```

Explanation An error occurred when trying to create a class-map.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show policy-map [type <policy type> <name>]** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CCE-3-CCE_FILTER_OVERFLOW : Filter list overflow at type [chars]
```

Explanation An internal error occurred when trying to build class-map information for one of the classes in a policy-map.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show class-map [type <class type> <name>]** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CCE-3-CCE_INVALID_FILTER_RELN : Invalid filter relation [int]
```

Explanation An internal error occurred when trying to build class-map information for one of the classes in a policy-map.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show policy-map [type <policy type> <name>]** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CCE-4-CCE_NESTED_CLASS_LIMIT : Nested class [dec] layers cannot exceed 4
```

Explanation When configure nested classes as match statements, the total levels of nested classes cannot exceed 4 layers

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show class-map [type <class type> <name>]** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CCE-4-CCE_STACK_LIMIT : Failed to create class [dec] filter list
```

Explanation An operation to send a filter list to the forwarding processor for a particular class has failed due to a resource issue. This may imply that the notification was dropped.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show class-map [type <class type> <name>]** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_CEF

```
%IOSXE_FMANRP_CEF-3-ENQUEFAIL : Unable to send [chars] [chars] message to Forwarding
Manager Process
```

Explanation An unexpected condition has occurred which resulted in a configuration not being sent to the Forwarding Manager Process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CEF-3-NOFIB : FIB entry is null
```

Explanation An unexpected condition has occurred which is due to the absence of a FIB entry structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip cef** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CEF-3-NOFIBIDB : FIB interface is null
```

Explanation An unexpected condition has occurred which is due to the absence of a FIB interface structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip cef** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CEF-3-NOFIBPUSHCNT : FIB push counter is null
```

Explanation An unexpected condition has occurred which is due to the absence of a FIB push counter structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip cef** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CEF-3-NOFIBSB : FIB SB entry is null
```

Explanation An unexpected condition has occurred which is due to the absence of a FIB SB entry structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip cef** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CEF-3-NOFIBTABLE : FIB table is null
```

Explanation An unexpected condition has occurred which is due to the absence of a FIB table structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip cef** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CEF-3-NONATADDR : NAT address is null
```

Explanation An unexpected condition has occurred which is due to the absence of an NAT address.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip alias** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CEF-3-ROUITEMSGMARSHAL : Failed to copy route message to IPC buffer for prefix [chars]/[dec] -[chars]
```

Explanation This operation to build a TDL messages for route download has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CEF-4-UPDFRAGSTATSEERR : Update IP Fragmentation statistics error
```

Explanation An unexpected condition has occurred when updating fragmentation statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CEF-4-UPDREASSSTATSEERR : Update IP Reassembly statistics error
```

Explanation An unexpected condition has occurred when updating reassembly statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_CEF-4-UPDSTATSEERR : Update CEF statistics error
```

Explanation An unexpected condition has occurred when updating cef statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_EFP

```
%IOSXE_FMANRP_EFP-3-EFP_ACCOUNTING_ERROR : [chars] FMAN EFP support has encountered an EFP accounting error on [chars]: [chars]
```

Explanation An invalid EFP count found during EFP accounting in IOSXE FMAN EFP support.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ethernet service instance detail** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_EFP-3-EFP_AVL_DELETE : Failed to delete EFP node with id [dec] in [chars]
```

Explanation An unexpected condition during configuration change

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_EFP-3-EFP_CFM_ERROR : IOSXE FMAN EFP has encounterd an unsupported en-
cap for CFM. Please remove any CFM configuration befor applying this encap.
```

Explanation The encapsulation type is not supported for CFM on IOSXE.

Recommended Action Remove any CFM config and reapply encapsulation

```
%IOSXE_FMANRP_EFP-3-INVALID_VALUE : Configuration specified invalid value [dec] for
[chars]
```

Explanation An unexpected condition in which configuration has accepted an invalid value.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_EOAM

```
%IOSXE_FMANRP_EOAM-3-IOSXE_FMANRP_EOAM_CONFIG : MIP Filtering enable/disable will
take into affect only if it is applied before applying any cfm config.
```

Explanation MIP filtering enable/disable should be applied before applying cfm config. Otherwise the command will have no affect on CFM Filtering.

Recommended Action show platform software eoam fp active cfm global

IOSXE_FMANRP_ETHER_DPLB

```
%IOSXE_FMANRP_ETHER_DPLB-3-INVALIDIF : Configuration specified invalid value [dec]
for [chars]
```

Explanation An non-existent interface is specified for ETHER_DPLB operation.

Recommended Action show interface

```
%IOSXE_FMANRP_ETHER_DPLB-3-IOSXE_FMANRP_ETHER_DPLB_STATS : Invalid stats update.
type [dec], id [dec]
```

Explanation An invalid stats update is received by ETHER_DPLB.

Recommended Action show platform software ether_dplb

IOSXE_FMANRP_FPM

```
%IOSXE_FMANRP_FPM-3-NOSTATUPDATE : Failed to update class-map statistics during pe-
riodic update
```

Explanation A statistics update for a class-map has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_FPM-4-INVALIDACTION : FPM feature action is invalid [dec]
```

Explanation An unexpected condition has occurred which is due to the invalid action type when trying to bind FPM action with target class group.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_FPM-4-INVALIDLENTYPE : Field length type in PHDF file is invalid
```

Explanation An unexpected condition has occurred which is due to the invalid field length type in PHDF file.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_FPM-4-INVALIDMATCHTYPE : FPM match type is invalid [dec]
```

Explanation An unexpected condition has occurred which is due to the invalid FPM match type in one of FPM class-map filter match entry

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_IPHC

```
%IOSXE_FMANRP_IPHC-4-INVALIDSTATSTYPE : IP header compression statistic message received has invalid stats type
```

Explanation When receiving an IP header compression statistic update for an interface or sub-interface in IOS, the statistic type in that message is invalid.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_IPHC-4-NOIDB : IOS interface ([chars]) is not available for an IP header compression statistics update message
```

Explanation When receiving an IP header compression statistic update for an interface or sub-interface in IOS, one of data structures in IOS to store those IP header compression statistics is NULL

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_IPHC-4-STATSERR : There is error when processing IP header compression statistic message received on IOS
```

Explanation When receiving an IP header compression statistic update for an interface or sub-interface in IOS, an unexpected error occurred

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_L2FIB

```
%IOSXE_FMANRP_L2FIB-3-INVALIDIF : Configuration specified invalid value [dec] for [chars]
```

Explanation An non-existent interface is specified for L2FIB operation.

Recommended Action show interface

```
%IOSXE_FMANRP_L2FIB-3-IOSXE_FMANRP_L2FIB_STATS : Invalid stats update. type [dec],  
id [dec]
```

Explanation An invalid stats update is received by L2FIB.

Recommended Action show platform software l2fib

IOSXE_FMANRP_LISP_SFLTR

```
%IOSXE_FMANRP_LISP_SFLTR-3-UPDENTRYSTATSERR : Update LISP-SFLTR Entry statistics er-  
ror
```

Explanation An unexpected condition has occurred when updating lisp-sfltr entry statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_LISP_SFLTR-3-UPDTABLESTATSERR : Update LISP-SFLTR Table statistics er-  
ror
```

Explanation An unexpected condition has occurred when updating lisp-sfltr table statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_MACSEC

```
%IOSXE_FMANRP_MACSEC-3-INVALIDIF : Configuration specified invalid value [dec] for  
[chars]
```

Explanation An non-existent interface is specified for MACSEC operation.

Recommended Action show interface

```
%IOSXE_FMANRP_MACSEC-3-IOSXE_FMANRP_MACSEC_STATS : Invalid stats update. type [dec],  
id [dec]
```

Explanation An invalid stats update is received by MACSEC.

Recommended Action show platform software macsec

IOSXE_FMANRP_MCAST

```
%IOSXE_FMANRP_MCAST-3-FMANRP_BADMAF : Unknown Multicast AF [dec])
```

Explanation An unexpected condition has occurred due to the download of an unknown MFIB address family code.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show mfib** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_MCAST-3-FMANRP_DELID : Failed to remove Multicast ID [dec])
```

Explanation An unexpected condition has occurred due to the failure to delete an internal identifier that is no longer in use.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show mfib** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_MCAST-3-FMANRP_MCAP : Multicast Capability ([chars]:[chars]), error [chars])
```

Explanation An unexpected condition has occurred due to the failure to set a multicast capability for this platform.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show mfib state cap** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_MCAST-3-FMANRP_MSTATS : Can't process multicast stats upload from fman. type [dec], id [dec]
```

Explanation An unexpected condition has occurred, preventing interpretation of the stats message from the forwarding manager. This will prevent the statistics for the affected multicast entries from being updated.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip mroute count** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_MCAST-3-FMANRP_NOID : No Multicast ID for ([IP_address], [IP_address]/[dec]), action [IP_address]
```

Explanation An unexpected condition has occurred due to the failure to allocate an internal identifier (ID), the multicast route will use a default empty mlist ID, causing all traffic to this route to be blackholed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip mroute count** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_MCAST-3-FMANRP_UPDINTF : Failed to update flag count for [chars], due to [chars]
```

Explanation An unexpected condition has occurred due to the failure to update the interface flag count

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show mfib** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_MCAST-3-MCASTID : Multicast ID management error
```

Explanation An unexpected condition has occurred, causing an internal ID to not be properly handled or disposed of

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip mroute count** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_OBJID2

```
%IOSXE_FMANRP_OBJID2-3-DUPCREATE : Duplicate forwarding object creation obj_handle [hex], type [int], existing obj_id [hex], type [int]
```

Explanation An unexpected condition has occurred which results in duplicate forwarding object creation with different object types.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_OBJID

```
%IOSXE_FMANRP_OBJID-5-DUPCREATE : Duplicate forwarding object creation obj_handle
[hex], type [int], existing obj_id [hex], type [int]
```

Explanation An unexpected condition has occurred which results in duplicate forwarding object creation.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_RTMAP

```
%IOSXE_FMANRP_RTMAP-3-INVALID_LIST : NULL
```

Explanation An internal list structure has been detected as invalid.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_RTMAP-3-RTMAPNULL : The route-map structure for [chars] is null
```

Explanation An unexpected condition has occurred which is due to the absence of a route-map data structure.

Recommended Action show route-map

```
%IOSXE_FMANRP_RTMAP-3-RTMAP_UNSUPPORTED : Routemap ([chars]) contain unsupported
match/set clause, ignored
```

Explanation A map contains unsupported match or set clause

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_RTMAP-4-UNKOWNCLIANT : Unknown client type [dec] received
```

Explanation An unexpected known client type is received for route-map download.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool:

<https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_URPF

```
%IOSXE_FMANRP_URPF-3-INVALIDIFHDL : Invalid interface handle [int] for interface
(number= [int], swidb= [hex], name= [chars])
```

Explanation An unexpected condition has occurred which is due to an invalid interface handle

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_URPF-4-NOV4SWIDB : v4 sub-interface is null
```

Explanation An unexpected condition has occurred which is due to the absence of a v4 swidb structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_URPF-4-NOV6SWIDB : v6 sub-interface is null
```

Explanation An unexpected condition has occurred which is due to the absence of a v6 swidb structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ipv6 interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_URPF-4-UPDV4STATSERR : Update v4 URPF statistics error
```

Explanation An unexpected condition has occurred when updating v4 URPF statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip interface <name>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_FMANRP_URPF-4-UPDV6STATSERR : Update v6 URPF statistics error
```

Explanation An unexpected condition has occurred when updating v6 URPF statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ipv6 interface <name>** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_VPLS

```
%IOSXE_FMANRP_VPLS-3-INVALID_VALUE : Invalid value for [chars]
```

Explanation An unexpected condition in which an invalid value is get during VPLS configuration.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_ZONES

```
%IOSXE_FMANRP_ZONES-3-NOSTATUPDATE : Failed to update zone-pair statistics during
periodic update (zone [chars], class [int])
```

Explanation A statistics update for a zone-pair has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_INFRA

```
%IOSXE_INFRA-2-FATAL_NO_PUNT_KEEPAKIVE : Keepalive not received for [int] seconds
resetting
```

Explanation Punt Inject keepalive message was not received

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-APP_SESS_OPEN_FAILED : An attempt to open [chars] with handle number [dec] has failed ([dec])
```

Explanation Application session between processes failed to establish.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-BSO_MSG_CACHE_ERR : BSO mmessage query cache update error
```

Explanation BSO mmessage query cache update error

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-BSO_MSG_HDR_LENGTH_ERR : BSO message header length [int] is incorrect
```

Explanation BSO message header length is incorrect

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-BSO_MSG_HDR_MSGTYPE_ERR : BSO message header msgtype [int] is incorrect
```

Explanation BSO message header msgtype is incorrect

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-BSO_MSG_UNMARSHAL_ERR : BSO message unmarshalling has failed
```

Explanation BSO message unmarshalling has failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_INFRA-3-CONSOLE_DEBUG_DROP : System dropped [dec] bytes of console debug messages.
```

Explanation Debugging messages are being generated faster than they can be displayed on the console. The messages can not be guaranteed to be seen so this message replaces the lost messages.

Recommended Action Consider using conditional debugging or turning off console logging.

```
%IOSXE_INFRA-3-CYAN_API_ERROR : Failed to retrieve platform dependent value of [chars] (err=[dec])
```

Explanation CYAN API function failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-IFS_DFLT_FS_REG_FAIL : Unable to set [chars] as a default file system.
```

Explanation IOSXE's platform dependent code failed to register the default file system.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-IFS_EXTLINK_ADD_FAIL : Could not add filesystem [chars] to IFS links
```

Explanation Attempt to add filesystem root to allow for links failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-IFS_INIT_HIDDEN_FAIL : IOSXE shim layer initialization failed: Can not create receiving queues
```

Explanation IOSXE IOS shim layer initialization of hidden path watch failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance

Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-IFS_UDEV_REMOVE_FAIL : Could not remove udev device [chars]
```

Explanation Attempt to remove udev device failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-INJECT_EMBEDDED_HDR_LENGTH_ERR : Can't allot space needed for embedded inject hdr size [int] exceeds limit
```

Explanation Can't allot space needed for embedded inject header, exceeds pak header space

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-INJECT_FEATURE_ESS_ERR : ESS segment not found, type [dec] hdl [hex]
```

Explanation Packets to be injected to an unsupported ESS segment

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-INJECT_GSB_CTL_INIT_FAIL : Inject adjacency subblock init failed
```

Explanation Adj subblock control or register failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-INJECT_HDR_LENGTH_ERR : Inject hdr size [int] exceeds limit
```

Explanation Inject header length exceeds pak header space

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search

Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-INJECT_NO_IF_OUTPUT_ERR : Output intf is NULL, [chars]
```

Explanation Output intf is required to proceed, else skip the feature

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-INVALID_ERRMSG : Error message type [dec] not defined
```

Explanation Error message type used is not defined in IOSXE infrastructure

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-INVALID_RUNTIME_IDX : Thread runtime index [dec] is not valid
```

Explanation Export the thread's running time failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-PUNT_ADDR_RES_ENCAP_ERR : Punted address resolution packet with unknown encap [chars]
```

Explanation Punted packet for ARP/ND with encap not supported

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-PUNT_INCOMP_WRONG_ADJID : Punted address resolution packet linktype [chars], adj-id [dec] is with linktype [chars]
```

Explanation CPP needs to punt incomplete adjacency for resolution by specifying the adjacency-id, but the included adjacency-id does not match the incomplete adjacency this packet triggered.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-PUNT_KEEPAALIVE_LOG_ERR_ALLOC_CSB : Failed to allocate a csb
```

Explanation Can't allocate a csb when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-PUNT_KEEPAALIVE_LOG_ERR_ALLOC_TTY : Failed to allocate a tty
```

Explanation Can't allocate a TTY when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-PUNT_KEEPAALIVE_LOG_ERR_OPEN_FILE : Failed to open file: [chars]
```

Explanation Failed to open file when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-PUNT_KEEPAALIVE_LOG_ERR_PARSE_CMD : Failed to parse command: [chars]
```

Explanation Failed to parse a command when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-PUNT_KEEPAALIVE_LOG_ERR_WRITE_TO_FILE : Write to file Id [dec] failed [dec] bytes, expected [dec] bytes
```

Explanation Write to file failed when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-PUNT_SVC_PROC_ERR : Punt service [chars] create failed
```

Explanation Punt service process can not be created

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-PUNT_SVC_TYPE_UNKNOWN : Punted packet with unknown service type [int]
```

Explanation Punted pak with an unsupported service type

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-RELOAD_INFO_SAVE_FAIL : Unable to save reload information: [dec]: [chars].
```

Explanation IOSXE's platform dependent code failed to save the reload information.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-SHIM_INIT_DISPATCH_INIT_FAIL : IOSXE shim layer initialization, dispatch path init failed.
```

Explanation IOSXE IOS shim layer initialization of TDL disatch path

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-SHIM_INIT_MEM_FAIL : IOSXE shim layer initialization failed: Memory initialization failed.
```

Explanation IOSXE IOS shim layer initialization of memory failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-SHIM_INIT_PROC_FAIL : IOSXE shim layer initialization failed: Dispatch process creation failed
```

Explanation IOSXE IOS shim layer initialization creating dispatch process failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-SHIM_INIT_TDL_FAIL : IOSXE shim layer initialization TDL Lib [chars] failed.
```

Explanation IOSXE IOS shim layer initialization of TDL library

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-SHIM_INIT_WQ_CHASFS_FAIL : IOSXE shim layer initialization failed: Can not create receiving chasfs watched queue
```

Explanation IOSXE IOS shim layer initialization of watched queue failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-SHIM_INIT_WQ_FAIL : IOSXE shim layer initialization failed: Can not create receiving queues
```

Explanation IOSXE IOS shim layer initialization of watched queue failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_INFRA-3-SHIM_IPC_NOT_PROCESSED : msg handler returned FALSE for IPC msg for
fd [dec], seq_num [dec], service [chars]
```

Explanation None

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-SHIM_NO_IPC_DISPATCH_HDL : IOSXE shim layer [chars] process message
without IPC dispatch handler.
```

Explanation IOSXE IOS shim layer has no ipc dispatch handler set

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-SHIM_RXMSG_NO_IPC_HDL : IOSXE shim layer without IPC handler for fd
[dec], seqnum [dec].
```

Explanation IOSXE IOS shim layer cannot find ipc handler

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-SN_IPFRR_PROC_ERR : Static Nexthop IPFRR [chars] create failed
```

Explanation SN IPFRR process can not be created

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-SWIFT_ORCH_PROC_FAIL : IOSXE SWIFT Orchestrator process creation
failed
```

Explanation The SWIFT Orchestrator process could not be created

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-3-VM_PAGE_TABLE_ERR : VM guarded page operation failed, address [hex],  
[chars]
```

Explanation VM guarded page avl tree operation error

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-4-BSO_MSG_RIB_WATCH_WARN : BSO message RIB watch start error
```

Explanation BSO message RIB watch start error

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-4-INJECT_TUN_NONIP_WARN : pak with linktype [chars] gets into non-ip  
tunnel
```

Explanation IP/IPv6/MPLS packet should to go through GRE tunnel for non-IP payload

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-4-NO_PUNT_KEEPALIVE : Keepalive not received for [int] seconds
```

Explanation Punt Inject keepalive message was not received

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-4-PUNT_KEEPLIVE_LOG_ERR_CLOSE_FILE : Failed to close file with de-  
scriptor: [dec]
```

Explanation Closing of file failed when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-4-PUNT_KEEPLIVE_LOG_ERR_GET_FILE_NAME : Failed to get file name
```

Explanation Could not form a file name when generating punt err logPunt keepalive log error seen

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-4-PUNT_KEEPLIVE_LOG_ERR_GET_PROCID : Failed to get process id
```

Explanation Can't get identifier of the process generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-4-PUNT_KEEPLIVE_LOG_ERR_INV_FILE_ID : Invalid file descriptor: [dec]
```

Explanation Invalid file descriptor was found when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-4-PUNT_KEEPLIVE_LOG_ERR_INV_PARAM : Invalid parameter: [chars]
```

Explanation Invalid parameter was passed when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-4-PUNT_KEEPLIVE_LOG_ERR_INV_PROCID : Invalid proc id [dec], expected [dec]
```

Explanation Invalid process trying to generate punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-5-PUNT_SVC_CANT_ENQUEUE : Punted pak can't be enqueued for service
```

Explanation Punted pak enqueue failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-5-PUNT_SVC_INVALID_OPT_PKT : Invalid IPv4 options packet punted to RP
```

Explanation Invalid IPv4 options packet dropped in RP

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-6-AUXTHD_REQUEST : Too many outstanding requests for file system access
```

Explanation Resource temporarily unavailable

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-6-CHASFS_CLOCK_SET_FAIL : Failed to set Chasfs property on system time change
```

Explanation Unable to set chasfs property on system time change

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_INFRA-6-CONSOLE_ACTIVE : [chars]
```

Explanation Indicates that the current instance of IOS is assuming active control of the console. This is informational.

Recommended Action No action is required.

```
%IOSXE_INFRA-6-PLATFORM_RELOAD : [chars]
```

Explanation Indicates that the current instance of IOS is being reset by the platform code. This is part of a normal reset sequence and the message is informational.

Recommended Action No action is required.

```
%IOSXE_INFRA-6-PROCPATH_CLIENT_HOG : IOS shim client '[chars]' has taken %ld msec
(runtime: %ld msec) to process a '[chars]' message
```

Explanation The specified IOSXE IOS shim client has taken too long to process a received IPC or chasfs message

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-6-SHIM_RXMSG_IPC_INFO : IOS shim layer process IPC msg for fd [dec],
seq_num [dec], ipc_status [dec]
```

Explanation None

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_INFRA-6-THEAD_SELECT_ERR : Inbound message or packet select error, [chars].
```

Explanation Socket select operation error in threads

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_LICENSE_RP

```
%IOSXE_LICENSE_RP-3-UNREGISTER_FAIL : License unregistration not successful for feature [chars]
```

Explanation Unregistration failed as license was not released.

Recommended Action License has to be released before unregistering

IOSXE_LMANRP

```
%IOSXE_LMANRP-3-MSGDISPATCH : Unable to dispatch received TDL message from lman daemon.
```

Explanation An unexpected condition has occurred while IOS was trying to dispatch a TDL message received from lman daemon.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_LMANRP-3-MSGINITFAIL : Failed to initialize required lman resource: [chars]
```

Explanation During the initialization of the resources required by lman, a failure occurred. This has prevented lman from being activated.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_LMANRP-3-MSGOPERATION : Unable to [chars] the [chars] to license manager, i.e., lman daemon. Error: [dec]
```

Explanation An unexpected condition has occurred while IOS was trying to send a TDL message to lman daemon.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_MEMPOOL_MIB

```
%IOSXE_MEMPOOL_MIB-3-BUFFPOOL_REG_ERROR : Bufferpool register data exceeds allocated memory; Retrieved only [dec] entries.
```


Explanation Memory allocated is not enough

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_MGMTVRF

```
%IOSXE_MGMTVRF-3-AFI_ATTACH_FAIL : Management VRF AFI [chars] attach failed
```

Explanation Can not create afi subblock for mgmt vrf

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_MGMTVRF-3-INTF_ATTACH_FAIL : Management VRF attach to mgmt [chars] failed
```

Explanation Can not associate mgmt port to mgmt vrf

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_MGMTVRF-3-PROCESS_CREATE_FAIL : Management VRF process creation failed,
[chars]
```

Explanation Can not create IOS process for mgmt port init

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_MGMTVRF-3-SET_TABLEID_FAIL : Installing [chars] Management interface tableid
[hex] failed
```

Explanation Fail to set mgmt port tableid into Linux kernel

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_MGMTVRF-3-VRF_CREATE_FAIL : Management VRF creation failed [chars]
```

Explanation Can not create mgmt vrf during system init

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_MGMTVRF-6-CREATE_SUCCESS_INFO : Management vrf [chars] created with ID [dec],
ipv4 table-id [hex], ipv6 table-id [hex]
```

Explanation mgmt vrf and ipv4, ipv6 tables created for mgmt port

Recommended Action None

IOSXE_MLP

```
%IOSXE_MLP-2-DB_ALLOC_FAIL : MLP link db allocation failed
```

Explanation MLP link database error. Memory chunk creation for MLP link database has failed.

Recommended Action Check for accurate memory management. Perform memory leak checks and look for memory corruption causes. Execute 'show proc memory' command.

```
%IOSXE_MLP-2-DB_DELETE_FAIL : MLP link db entry delete for link [chars] failed
```

Explanation MLP link database error. Removal of entry from MLP link database has failed.

Recommended Action Check for accurate memory management. Perform memory leak checks, look for mamory corruption causes and check for correct database management. Execute 'show proc memory' command.

```
%IOSXE_MLP-2-DB_DESTROY_FAIL : MLP link database destroy failed
```

Explanation MLP link database error. Memory chunk destroy has failed for MLP link database.

Recommended Action Check for accurate memory management. Perform memory leak checks and look for memory corruption causes. Execute show proc memory command.

```
%IOSXE_MLP-2-DB_ENTRY_ALLOC_FAIL : MLP link db entry allocation for link [chars]
failed
```

Explanation MLP link database error. Memory chunk allocation for MLP link database entry has failed.

Recommended Action Check for accurate memory management. Perform memory leak checks and look for memory corruption causes. Execute 'show proc memory' command.

```
%IOSXE_MLP-2-DB_ENTRY_FREE_FAIL : MLP link entry free failed
```

Explanation MLP link database error. Memory chunk free of MLP link database entry has failed.

Recommended Action Check for accurate memory management. Perform memory leak checks and look for memory corruption causes. Execute 'show proc memory' command.

```
%IOSXE_MLP-2-DB_INSERT_FAIL : MLP link db entry add for interface [chars] failed
```

Explanation MLP link database error. Insertion of a new entry into MLP link database has failed.

Recommended Action Check for accurate memory management. Perform memory leak checks, look for memory corruption causes, verify correct database management. Execute 'show proc memory' command.

```
%IOSXE_MLP-3-ENQUEFAIL : Unable to send [chars] [chars] message to Forwarding Manager Process
```

Explanation An unexpected condition has occurred which resulted in a configuration not being sent to the Forwarding Manager Process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_MLP-4-UPDSTATSERR : Update MLP statistics error
```

Explanation An unexpected condition has occurred when updating mlp statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_MMA

```
%IOSXE_MMA-3-ENQUEFAIL : Enqueue of TDL message failed ([chars]).
```

Explanation An unexpected condition has occurred which resulted in configuration details not being forwarded.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

IOSXE_MMA_FMP

```
%IOSXE_MMA_FMP-3-ENQUEFAIL : Enqueue of TDL message failed ([chars]).
```

Explanation An unexpected condition has occurred which resulted in configuration details not being forwarded.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_OIR

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

Explanation A hardware or software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_OIR-3-OIRTWICE : Subslot [int]/[int] OIR insertion/removal not paired up:
[chars]
```

Explanation An internal OIR-related error occurred for the specified SPA.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_OIR-3-POWER_CYCLE_IMMINENT : The SPA in subslot [int]/[int] will be power cy-
cled in [dec] seconds.
```

Explanation The SPA in the specified subslot will be power cycled in the amount of time specified in the error message.

Recommended Action No action is required.

```
%IOSXE_OIR-3-PROCMSG : Process msg send failed for process[dec]
```

Explanation Process message send failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_OIR-3-QUIESCE_FAIL : Quiesce failed for subslot [int]/[int] (error = [dec])
```

Explanation The RP failed to contact the SPA during failover. The SPA will be reset.

Recommended Action No action is required.

```
%IOSXE_OIR-3-SPA_INTF_ID_ALLOC_FAILED : Failed to allocate interface identifiers for SPA([chars]) in slot/bay: [int]/[int]
```

Explanation Failed to get CC buffer and flow control identifiers for the SPA in the specified subslot Traffic cannot flow through the SPA under this failure condition. This can happen if the system runs out of available identifiers.

Recommended Action Try to reduce the number of interfaces configured in the system either by physically removing the SPAs or by changing the system configuration

```
%IOSXE_OIR-3-SPA_MDR_FAIL : Minimal Disruptive Restart process failed for SPA in subslot [int]/[int], reason [chars].
```

Explanation The SPA in the subslot 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.

Recommended Action No action is required.

```
%IOSXE_OIR-3-UNQUIESCE_FAIL : Unquiesce failed for subslot [int]/[int] (error = [dec])
```

Explanation The RP failed to unquiesce the SPA in the specified subslot. The SPA will be reset.

Recommended Action No action is required.

```
%IOSXE_OIR-6-CARDRECONCILE : SPA type changed on subslot [int]/[int] from [int] to [int]
```

Explanation The SPA in the specified subslot has been initialized, and it has been detected that it is of a different type to the SPA that was previously in this subslot.

Recommended Action No action is required.

```
%IOSXE_OIR-6-INSCARD : Card ([chars]) inserted in slot [chars]
```

Explanation The OIR facility detected the insertion of a card in the slot number specified in the message.

Recommended Action No action is required.

%IOSXE_OIR-6-INSSPA : SPA inserted in subslot [int]/[int]

Explanation The OIR facility detected the insertion of a SPA in the subslot number specified in the message.

Recommended Action No action is required.

%IOSXE_OIR-6-INSSSFP : VCoP inserted in port [chars]

Explanation The OIR facility detected the insertion of VCoP SSFP in the port number specified in the message.

Recommended Action No action is required.

%IOSXE_OIR-6-OFFLINECARD : Card ([chars]) offline in slot [chars]

Explanation The OIR facility detected the state change to offline for the card in the slot number specified in the message.

Recommended Action No action is required.

%IOSXE_OIR-6-ONLINECARD : Card ([chars]) online in slot [chars]

Explanation The OIR facility detected the state change to online for the card in the slot number specified in the message.

Recommended Action No action is required.

%IOSXE_OIR-6-REMCARD : Card ([chars]) removed from slot [chars]

Explanation The OIR facility detected the removal of a card from the slot number specified in the message.

Recommended Action No action is required.

%IOSXE_OIR-6-REMSPA : SPA removed from subslot [int]/[int], interfaces disabled

Explanation The OIR facility detected the removal of a SPA from the subslot number specified in the message. The interfaces on that processor will be administratively shut down and marked as removed. The routing table will be flushed of any routes through the removed interfaces.

Recommended Action No action is required.

%IOSXE_OIR-6-REMSSFP : VCoP removed from port [chars]

Explanation The OIR facility detected the removal of VCoP SSFP in the port number specified in the message.

Recommended Action No action is required.

%IOSXE_OIR-6-SOFT_RELOADSPA : SPA([chars]) reloaded on [chars]

Explanation The SPA in the specified subslot is reloaded by the command `<CmdBold>hw-module subslot<NoCmdBold><CmdArg>slot#/subslot#<NoCmdArg> <CmdBold>reload<NoCmdBold>`

Recommended Action No action is required.

```
%IOSXE_OIR-6-SOFT_STARTSPA : SPA([chars]) restarted in [chars]
```

Explanation The SPA in the specified subslot is restarted by the command `<CmdBold>hw-module subslot<NoCmdBold><CmdArg>slot#/subslot#<NoCmdArg> <CmdBold>start<NoCmdBold>`

Recommended Action No action is required.

```
%IOSXE_OIR-6-SOFT_STOPSPA : SPA([chars]) stopped in [chars], interfaces disabled
```

Explanation The SPA in the specified subslot is stopped by the command `<CmdBold>hw-module subslot<NoCmdBold><CmdArg>slot#/subslot#<NoCmdArg> <CmdBold>stop<NoCmdBold>` The interfaces on that processor will be administratively shut down and marked as removed. The routing table will be flushed of any routes through the removed interfaces.

Recommended Action No action is required.

```
%IOSXE_OIR-6-SPARELOAD : SPA reloaded on subslot [int]/[int]
```

Explanation The SPA in the specified subslot is reloaded.

Recommended Action No action is required.

```
%IOSXE_OIR-6-SYNCSIPA : SPA ([chars]) reloading to come up in [chars] mode
```

Explanation The SPA in the specified subslot is reloaded by the command `<CmdBold>hw-module subslot<NoCmdBold><CmdArg>slot#/subslot#<NoCmdArg> <CmdBold>reload<NoCmdBold>`

Recommended Action No action is required.

IOSXE_PEM

```
%IOSXE_PEM-3-FANFAIL : The fan in slot [chars]/[dec] is encountering a failure condition
```

Explanation The fan's hardware is reporting that the fan is failing. This is most likely because the hardware detects the fan as spinning below the minimum speed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_PEM-3-FAN_FAIL_SHUTDOWN : More than one [chars] has failed, Leads to shut-
down the system
```

Explanation The Temperature sensor reaching maximum threshold value working properly.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_PEM-3-PEMCHASFSERR : The PEM in slot [chars] has encountered a system soft-
ware error.
```

Explanation The PEM's underlying software for storing PEM state is not working properly.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_PEM-3-PEMFAIL : The PEM in slot [chars] is switched off or encountering a
failure condition.
```

Explanation The PEM hardware has been either switched off, or is reporting a failure condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_PEM-3-PEMREDNOPWR : Cannot enable power redundancy mode [chars] because con-
fig would create mode with insufficient [chars] power
```

Explanation Configuration set by user is not valid as power supplies in the active slots do not contain enough power to meet the power requirements

Recommended Action Insert additional power supplies and configure them to be active or configure current standby power supplies to active such that power requirements are met

```
%IOSXE_PEM-3-PEMREDNOSTDBY : Total power budget of standby power supplies is zero
```

Explanation Operating in unprotected mode Should insert at least one ps in standby slots

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_PEM-3-SSFP_TEMPERATURE_RAISE : [chars] transceiver tempeprature reached
threshold value, Leads to shutdown the system
```

Explanation The Temperature sensor reaching maximum threshold value working properly.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_PEM-3-TEMPERATURE_RAISE : Sensor [chars] has reached maximum tempeprature
value, Leads to shutdown the system
```

Explanation The Temperature sensor reaching maximum threshold value working properly.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_PEM-6-FANOK : The fan in slot [chars]/[dec] is functioning properly
```

Explanation The fan was reporting a failure condition. This message indicates that the fan is no longer reporting a failure

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_PEM-6-INSPERM_FM : PEM/FM slot [chars] inserted
```

Explanation The platform detected the insertion of a power/fan module in the slot number specified in the message.

Recommended Action No action is required.

```
%IOSXE_PEM-6-PEMOK : The PEM in slot [chars] is functioning properly
```

Explanation The PEM hardware may have been either switched off, or reporting a failure condition. This message indicates that the PEM is no longer either switched off, or reporting a failure

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_PEM-6-PEMREDAUTOLCCONFLICT : Cannot enable power redundancy and autoLC shutdown simultaneously

Explanation Power supply redundancy mode n+1 or n+n is not compatible with autoLC shutdown feature.

Recommended Action Disable autoLC shutdown or set power redundancy mode to combined

%IOSXE_PEM-6-REMPERF_FM : PERF/FM slot [chars] removed

Explanation The platform detected the removal of a power/fan module in the slot number specified in the message.

Recommended Action No action is required.

IOSXE_PLATFORM

%IOSXE_PLATFORM-3-WDC_INVALID_LENGTH : WDC length can not be determined: [dec]

Explanation WDC length was not retrieved properly

Recommended Action Check if WDC is programmed on this device

%IOSXE_PLATFORM-3-WDC_NOT_FOUND : WDC returned length: [dec]

Explanation WDC length was set to 0, which specifies probably WDC does not exist

Recommended Action Check if WDC is programmed on this device

%IOSXE_PLATFORM-3-WDC_TLV_NOT_FOUND : WDC TLV could not be read from the Quack device

Explanation WDC TLV couldn't be read from the Quack device

Recommended Action Check if WDC is programmed on this device

IOSXE_PROCMIB

%IOSXE_PROCMIB-4-MSGERR : [chars] Error with process mib message from sub-slot [dec]/[dec]

Explanation When processing a process MIB message from the specified subslot, the specified error has occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_PROCMIB-4-SENDMSGERR : Failure in sending process mib information from sub-
slot [dec]/[dec] to RP [chars]
```

Explanation A failure is encountered when sending process MIB statistics from the IOS driver for the subslot specified in the message to RP IOS. This indicates a software failure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_RP_ALARM

```
%IOSXE_RP_ALARM-2-ESP : [chars] [chars] [chars] [chars] [chars]
```

Explanation No ESP running alarm information

Recommended Action No action is required.

```
%IOSXE_RP_ALARM-2-PEM : [chars] [chars] [chars] [chars] [chars]
```

Explanation Power Entity Module missing information

Recommended Action No action is required.

```
%IOSXE_RP_ALARM-6-INFO : [chars] [chars] [chars] [chars] [chars]
```

Explanation Alarm assertion or deassertion information.

Recommended Action No action is required.

IOSXE_RP_CFG_NOT

```
%IOSXE_RP_CFG_NOT-2-MSGIPCINITERROR : Error initializing IPC queue
```

Explanation An unexpected condition in which IOS could not initialize a message queue to the PSD.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-2-MSGNOEXP : Can not construct a '[chars]' message for configura-
tion export: [chars]
```

Explanation This error usually indicates either an out of memory condition or a TDL error. If ample memory is available, then the the TDL error may indicate a version conflict with respect to configuration.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-2-MSGTDLERROR : Error processing TDL message. [dec]
```

Explanation An unexpected condition in which IOS has received a TDL message which it can not process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-2-MSGTDLINITERROR : Configuration Notification messaging module initialization failed: Unable to initialize messaging: [chars]
```

Explanation The Configuration Notification subsystem has failed to initialize the infrastructure for messaging with the Pluggable Services Daemon. Notification of configuration to critical modules cannot proceed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-3-MCP_DBPERSIST_STAT : Failed to read [chars] property: [dec]
```

Explanation When a 'reload' operation occurs, this chasfs property is read to determine the status of the DB persist/restore/delete operation. This message indicates that the read failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-3-MCP_FRU_INVALID : Unknow FRU location: [chars]
```

Explanation Unknown FRU location

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-3-MCP_FRU_LOCATION : Failed to get local FRU location: [dec]
```

Explanation Unable to get local FRU location

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-3-MSGENCRYPTINVALID : The mcprp_cfg_notify subsystem has seen an encryption type it does not recognize. [dec]
```

Explanation An unexpected condition has occurred while IOS is trying to process a username command.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-3-MSGIPCTXERROR : IPC transmit error. [dec]
```

Explanation An unexpected condition in which IOS encountered an error trying to send a message to another process.
%d

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-3-MSGNOCAND : Can not construct a candidate entry for configuration export
```

Explanation This error usually indicates either an out of memory condition or a TDL error. If ample memory is available, then the the TDL error may indicate a version conflict with respect to configuration.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-3-MSGNOPWARR : Can not construct an array for configuration export
```

Explanation This error usually indicates either an out of memory condition or a TDL error. If ample memory is available, then the the TDL error may indicate a version conflict with respect to configuration.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-3-MSGNOREPLMSG : Can not construct a replace message for configuration export
```

Explanation This error usually indicates either an out of memory condition or a TDL error. If ample memory is available, then the the TDL error may indicate a version conflict with respect to configuration.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-3-MSGNOUPDATEMSG : Can not construct an update message for configuration export
```

Explanation This error usually indicates either an out of memory condition or a TDL error. If ample memory is available, then the the TDL error may indicate a version conflict with respect to configuration.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-3-MSGOBJNULL : An unexpected condition in which IOS has received a null pointer that it expects to be non-null.
```

Explanation An unexpected condition has occurred while IOS is trying to process a username command.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-3-NVWRITE_EXPORT : Failed to export [chars] notification: [dec]
```

Explanation When a 'write memory' or 'write erase' operation occurs, the Configuration Notification subsystem exports this event into the chassis file system. This message indicates that the export failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_CFG_NOT-6-IOX_SERVICE_NOTSUPPORTED : IOx service not supported.
```

Explanation IOx service is not supported in this platform currently. This may be either due to the feature unavailability or due the current inadequate license level of the system.

Recommended Action None

IOSXE_RP_DPIDB

```
%IOSXE_RP_DPIDB-3-BULK_SYNC : Failed to send [chars] information to peer
```

Explanation The bulk synchronization of the DPIDX configuration to the standby RP has failed to complete successfully; DPIDX has therefore taken the action which will result in a reload of the peer in order to once more attempt to successfully synchronize the configuration state which may have failed initially to a transient condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-CF : Datapath IDB CF operation failed -[chars]
```

Explanation Failure in some datapath ID CF activity.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-DECODE : Decode via [chars] of [chars] failed
```

Explanation A message of the transport and type described failed in its attempt to be decoded on the standby. The resultant action taken by the standby route processor is an attempt to resynchronize.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-DOWNLOADFAIL : Unable to download [chars] message to [chars]
```

Explanation An unexpected condition has occurred which resulted in a configuration not being sent to the reported process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-DYN_SYNC : Failed to process [chars] dynamic state
```

Explanation The incremental synchronization of the DPIDX configuration to the standby RP has failed to complete successfully. This implies that the configuration state between the active and standby RP is inconsistent.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interfaces** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-EFPSTATSFALIED : EFP stats message data get error: ([dec]) for EFP [int] on [chars]
```

Explanation An unexpected error occurred extracting fields from an EFP stats message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-EXDMAXVRFERR : Exceed Pathmgr max rloc vrf error
```

Explanation An unexpected condition has occurred when exceeding max rloc vrf

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-FASTNOTIFY : Fast notify failed for [chars]
```

Explanation A fast notify message failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-FRRLDFLOWIDDELETIONFAILED : Deletion of fast-reroute flow ID with manager failed
```

Explanation An unexpected condition has occurred that deletion of fast-reroute flow ID.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-IDBBADTYPE : Datapath IDB type [dec] is not valid
```

Explanation An unexpected condition has occurred as the type of a datapath IDB is not valid.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-IDBEXIST : Datapath IDB already exists in this mapping entry:
[chars]-[dec]
```

Explanation An unexpected condition has occurred that an attempt is made to save datapath IDB in a mapping entry filled by another.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-IDBNONEXIST : Datapath IDB does not exist in this mapping entry:
[chars]-[dec]
```

Explanation Datapath IDB lookup points to empty mapping entry.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-IDBNOTVAI : Invalid API call for [chars]
```

Explanation Failure in an internal API

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance

Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-IDXALLOCFAILED : Datapath IDB index allocation failed: [chars]
```

Explanation An unexpected condition has occurred as all the available of datapath IDB indices are used.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-IDXBADRANGE : Datapath IDB index [dec] is not in a valid range
```

Explanation An unexpected condition has occurred as the index of a datapath IDB is not valid.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-IDXDELETIONFAILED : Deletion of datapath IDB index from the data-  
base failed ([chars] -[hex]) rc [dec]
```

Explanation An unexpected condition has occurred that deletion of datapath IDB indices failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-IDXINSERTFAILED : Insertion of datapath IDB index [dec] into data-  
base failed
```

Explanation An unexpected condition has occurred that insertion of datapath IDB indices failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-IDXLOOKUPFAILED : Lookup of datapath IDB index from the database failed ([chars])
```

Explanation An unexpected condition has occurred that lookup of datapath IDB indices failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-IP_MTU_ALLOC_FAIL : No hardware resources for [int] byte IP MTU on [chars]
```

Explanation We reached to the threshold of maximum supported unique IP MTU on this platform.

Recommended Action No action is required.

```
%IOSXE_RP_DPIDB-3-ISSU : [chars] [chars] failed; [chars]
```

Explanation An operation pertaining to the ISSU support for DPIDX failed to complete using either the CF or IPC transport context with the reason specified

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-LIST : List [chars] failed for [chars]
```

Explanation List enqueue or removal failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-MTU_ALLOC_FAIL : No hardware resources for [int] byte MTU on [chars]
```

Explanation We reached to the threshold of maximum supported unique MTU on this platform.

Recommended Action No action is required.

```
%IOSXE_RP_DPIDB-3-NEGOTIATION : Failed to start ISSU [chars] session negotiation; [chars]
```

Explanation The ISSU negotiation with the peer failed to start for either the CF or IPC transport with the reason specified.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-NOHWSUBBLOCK : HWIDB [chars] does not have a hardware subblock
```

Explanation An unexpected condition has occurred that no hardware subblock was previously allocated for a HWIDB.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-NOSWSUBBLOCK : SWIDB [chars] does not have a software subblock
```

Explanation An unexpected condition has occurred that no software subblock was previously allocated for a SWIDB.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-NULLTIMER : NULL timer
```

Explanation A timer is NULL

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-PROGRESSION : Unable to inform RF of bulk sync completion; [chars]
```

Explanation The active route processor has sent a notification to the standby to inform of the completion of the bulk synchronization of the DPIDX configuration. The standby has failed to respond to the active informing that it received the notification noting the reason for the failure. The resultant action taken by the standby route processor is an attempt to resynchronize.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search

Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-RECEIVE : Message via [chars] is [chars]
```

Explanation An attempt to receive and process a versioned negotiation or synchronization message has failed due to an internal error being detected by the information received from the IPC or CF components.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-REGISTRATION : ISSU [chars] failed for [chars]; [chars]
```

Explanation An ISSU registration for the set of initial capabilities and sessions failed due to the reason specified. This will have the effect of the DPIDB ISSU support being unavailable between peers.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-RF : Datapath IDB RF operation failed -[chars]
```

Explanation Failure in some datapath ID RF activity.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-RPC : Datapath IDB RPC operation failed -[chars]
```

Explanation Failure in some datapath ID RPC activity.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show interface** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-TRANSFORM : [chars] of [chars] via [chars] failed for dpidx [int]
```

Explanation An attempt to either encode or decode a versioned synchronization message has failed due to an internal error encountered by the ISSU component.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-3-TRANSMIT : Unable to send via [chars] [chars] [chars] [chars];
[chars]
```

Explanation An attempt to send a versioned negotiation or synchronization message has failed due to an internal error encountered by the IPC or CF components.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-6-READY : [chars] peer not ready, discarding [chars]
```

Explanation The synchronization attempt for the message has determined that the transport has lost communication with its peer. This is a normal situation which indicates that the standby route-processor is currently out of service implying a simplex redundancy mode.

Recommended Action None

```
%IOSXE_RP_DPIDB-6-RELOAD : [chars], reloading [chars]
```

Explanation A synchronization attempt between the active and standby RP peers has failed with the reason indicated. The standby peer is reloaded in an attempt to resynchronize when operating in a stateful redundant mode.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_DPIDB-6-TIMEOUT : Bulk sync is flow controlled by [chars]
```

Explanation The bulk synchronization of the DPIDX configuration to the standby RP has encountered a flow control condition which has effected a timeout awaiting the condition to clear. This will result in a reload of the standby RP to allow the bulk synchronization to restart.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

IOSXE_RP_IF_FLOW_IDS

```
%IOSXE_RP_IF_FLOW_IDS-3-BUFF_OFFSET_NULL : Unable to utilize the memory buffer provided by the Checkpoint Facility. This [chars] CF client has failed to Bulk Sync.
```

Explanation This error indicates the Checkpoint Facility is having problems recognizing its own buffer layout. If this occurs during Bulk Sync then Bulk Sync will terminate without completing. Otherwise the incremental Sync will fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-CF_CANNOT_REGISTER : The call to add this [chars] CF client to the Checkpoint Facility failed with the error [chars]. This client is unable to proceed and will not be registered.
```

Explanation For some reason the Checkpoint Facility will not register this client. As a result the Standby will never receive synchronized state from this CF client on the Active RP, The system is not capable of SSO and HA switchover.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-CF_SEND_BULK_NONBLOCKED : The Checkpoint Facility reported the error [chars] while attempting to send a message. Bulk Sync of this [chars] CF client is terminating.
```

Explanation This error indicates the Checkpoint Facility has internal problems related to IPC, and cannot perform a non-blocked send operation.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-CF_SEND_INCR_NONBLOCKED : The Checkpoint Facility reported the error [chars] while attempting to send a non-blocked message. The Incremental Sync transaction for this [chars] CF client cannot be sent to the Standby RP.
```

Explanation This error indicates the Checkpoint Facility has internal problems related to IPC.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search

Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-DECODE : Decode via CF of [chars] failed
```

Explanation A message sent via the CF transport failed in its attempt to be decoded on the standby. The resultant action taken by the standby route processor is an attempt to resynchronize.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-DEFERRED_DURING_BULK_SYNC : Encountered error [chars] while trying to place an [chars] transaction on the Deferred list during Bulk Sync for the [chars] CF client.
```

Explanation Unable to cache a deferred transaction while Bulk Sync is underway. This can adversely impact SSO state on the Standby RP.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-ISSU_OP : [chars] [chars] failed; [chars]
```

Explanation An operation pertaining to the ISSU support for SPA MARMOT IDs failed to complete using the CF transport context with the reason specified

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-NEGOTIATION : Failed to start ISSU [chars] session negotiation; [chars]
```

Explanation The ISSU negotiation with the peer failed to start for either the CF or IPC transport with the reason specified.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-NO_BUFF_FOR_SYNC : The Checkpoint Facility reported the error [chars] during a request for a buffer length of [dec]. This [chars] CF client has failed to synchronize a transaction to the Standby RP.
```

Explanation This error indicates that the buffer management within the Checkpoint Facility has either run out of buffers, or has some other problem. If this occurs during Bulk Sync then Bulk Sync will terminate without completing. Otherwise the incremental Sync will fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-RECEIVE : Client reports message CF is [chars]
```

Explanation An attempt to receive and process a versioned negotiation or synchronization message has failed due to an internal error being detected by the information received from the CF component.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-REGISTRATION : ISSU [chars] failed for [chars]; [chars]
```

Explanation An ISSU registration for the set of initial capabilities and sessions failed due to the reason specified. This will have the effect of the SPA MARMOT ID ISSU support being unavailable between peers.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-RF_ADD_CLIENT_FAILED : The RF facility failed to add this [chars] client, reason given is [chars].
```

Explanation This indicates the RF facility could not add the client.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-RF_IF_ID_REGEN_ERROR : Error code [dec] encountered trying to regenerate interface flow-control identifier. If id [int] resides in slot/sub-slot/port ([int]/[int]/[int]).
```

Explanation The background process which performs Flow Control Id Pool regeneration encountered an error. As a consequence the Standby does not have valid Id pools and cannot progress to Active state.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-RF_PEER_EVENT_BUFFER : This [chars] RF client is unable to acquire an event buffer to send an RF peer message, the error [chars] was returned.
```

Explanation This indicates the RF facility is unable to provide a message buffer needed to communicate with the RF peer. As a consequence the RF progression may be compromised.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-RF_POOL_REGEN_ERROR : Id Pool Regeneration encountered error code [dec], cannot switchover.
```

Explanation The background process which performs Flow Control Id Pool regeneration encountered an error. As a consequence the Standby does not have valid Flow Id pools and cannot progress to Active state.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-RF_POOL_REGEN_PROCESS_FAILED : The [chars] RF client Failed to create the Id Pool Regeneration process.
```

Explanation The background process which performs Flow Control Id Pool regeneration failed to start. As a consequence the Standby will never obtain the relevant SSO state to enable HA switchover.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-RF_PROCESS_FAILED : This [chars] RF client Failed to create the Bulk Sync Process.
```

Explanation The background process which performs the RF Bulk Sync failed to be created. As a consequence the Standby will never obtain the relevant SSO state to enable HA switchover.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-RF_SEND_PEER : This [chars] RF client encountered error [chars], when attempting to send a peer message.
```

Explanation This indicates the RF facility could not send a message to the RF peer. As a consequence the RF progression may be compromised.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-RF_SPA_ID_REGEN_ERROR : Error code [dec] encountered trying to regenerate spa [chars] identifier in slot/subslot ([int]/[int])
```

Explanation The background process which performs Flow Control Id Pool regeneration encountered an error. As a consequence the Standby does not have valid Id pools and cannot progress to Active state.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-SEND_FAIL_RELOAD : Checkpoint Facility Failed to send a [chars] transaction for this [chars] CF client. Reloading the Standby RP.
```

Explanation This indicates the underlying Checkpoint Facility could not deliver a message sent from the active RP to the standby RP. The process will automatically reload the standby RP.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-TRANSFORM : [chars] of [chars] via CF failed
```

Explanation An attempt to either encode or decode a versioned synchronization message has failed due to an internal error encountered by the ISSU component.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-3-TRANSMIT : Unable to send via [chars] [chars] [chars]
[chars]; [chars]
```

Explanation An attempt to send a versioned negotiation or synchronization message has failed due to an internal error encountered by the CF component.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-4-DEF_LIST_REMOVE : Failed to remove one entry from the De-
ferred Sync list, for the [chars] CF client.
```

Explanation An unexpected condition occurred during list maintenance.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-6-CFPEER_CANNOT_RECV : The Checkpoint Peer is not ready to re-
ceive messages. The Incremental Sync transaction for this [chars] CF client will not
occur.
```

Explanation This error indicates the Checkpoint Facility has signalled the peer has gone away.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_IF_FLOW_IDS-6-READY : [chars] peer not ready, discarding [chars]
```

Explanation The synchronization attempt for the message has determined that the transport has lost communication with its peer. This is a normal situation which indicates that the standby route-processor is currently out of service implying a simplex redundancy mode.

Recommended Action None**IOSXE_RP_MGMTE**

```
%IOSXE_RP_MGMTE-3-MSGCREATENULL : Cannot allocate [chars] TDL message
```

Explanation An unexpected condition in which IOS cannot allocate TDL message for Management ethernet.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_MGMTE-3-MSGTDLINITERROR : Management ethernet interface messaging module initialization failed: Unable to initialize messaging: [chars]
```

Explanation The Management ethernet interface subsystem has failed to initialize the infrastructure for messaging with the Pluggable Services Daemon. Configuration of management ethernet modules cannot proceed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_MGMTE-3-PROCESS_CREATE_FAIL : Management ethernet statistics process creation failed
```

Explanation Can not create IOS process for RP management ethernet port statistics collection

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_RP_NV

```
%IOSXE_RP_NV-3-BACKUP_NV_ACCESS_FAIL : Initial read of backup NVRAM contents failed
```

Explanation This error happens when the contents of the backup NVRAM cannot be read during system initialization. The failure may be due to data corruption of the backup NVRAM contents. The primary nvram contents will be backed up here again.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_RP_NV-3-NV_ACCESS_FAIL : Initial read of NVRAM contents failed
```

Explanation This error happens when the contents of the NVRAM cannot be read during system initialization. The failure may be due to data corruption of the NVRAM contents. The initial configuration dialog will be entered and the configuration must be restored.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_RP_SPA

```
%IOSXE_RP_SPA-3-BAD_IFCOMTYPE : Bad ifcom message type=[int]
```

Explanation A SPA module passed down a message that the RP software was not prepared to handle.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-CI_UPDATE_FAIL : Failed to update connection identifier for inter-
face [chars]
```

Explanation The SPA driver is not able to update the datapath connection identifier for the interface specified in the message. This indicates a software error.

Recommended Action No action is required.

```
%IOSXE_RP_SPA-3-DPIDX_LKUP_FAIL : Failed to retrieve datapath identifier for inter-
face [chars]
```

Explanation The SPA driver is not able to retrieve the datapath identifier for the interface specified in the message. This indicates a software error.

Recommended Action No action is required.

```
%IOSXE_RP_SPA-3-ERROR : common_str_empty_str
```

Explanation This message can take many forms. It provides information about a software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance

Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-FLOWID_ALLOC_FAIL : Failed to allocate a flow control identifier for
interface [chars]
```

Explanation The SPA driver is not able to allocate the datapath flow control identifier for the interface specified in the message. This indicates a software error.

Recommended Action No action is required.

```
%IOSXE_RP_SPA-3-FLOWID_RELEASE_FAIL : Failed to release a flow control identifier
for interface [chars] (status = [dec])
```

Explanation The SPA driver is not able to release the datapath flow control identifier for the interface specified in the message. This indicates a software error.

Recommended Action No action is required.

```
%IOSXE_RP_SPA-3-FOREVER : cmd [int] to [chars] (slot [int]/[int]) took [int]secs,
done [hex]
```

Explanation A CCB command from the RP to a SPA module took longer than expected.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-FRR_CFG_REC_FAIL : Failed to record fast reroute configuration on
[chars]: [chars]
```

Explanation This message is displayed when a fast reroute configuration is not properly recorded.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-HWIDB_FAILURE : Creation: slot [dec] subSlot [dec] port [dec] vc
[dec]
```

Explanation Failed to create an interface hwidb.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance

Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-HWIDB_INIT_FAIL : Failed to initialize data structure for SPA port
[dec]/[dec]/[dec]
```

Explanation A SPA driver was not able to properly initialize a data structure mentioned in the message. This indicates a software error.

Recommended Action No action is required.

```
%IOSXE_RP_SPA-3-IFCFG_CMD_NOT_OWNER : Process '[chars]' waiting for interface con-
figuration command ([hex]) to slot [int]/[int] without acquiring lock owned by pro-
cess '[chars]'
```

Explanation A process on the RP sent an configuration command to the slot specified in the error message and a different process waited for the result. This could cause incorrect line card configuration states.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-IFCFG_FOREVER : to [chars] (slot [int]/[int]) took [int]secs,
ret_val [int]
```

Explanation A interface config command from the RP to a SPA module took longer than expected.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-IFCFG_NO_UNIQUE_KEY : No unique-key generator registered for inter-
face configuration command [int].
```

Explanation The High Availability component for SPA modules is unable to properly synchronize state information for the current configuration.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-INVALID_PORT_NUM : slot=[dec] port=[dec], hwidbType=[hex],
max_port_num=[dec], LCtype=[hex]
```


Explanation The port number is out of range.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-IPCALLOCFAIL : Failed to allocate IPC buffer [chars]
```

Explanation The RP failed to allocate a buffer for communication with a SPA

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-IPCPORT : Failed to [chars] IPC port '[chars]', error [chars]
```

Explanation The Linecard failed to create a port for communication with the Route Processor (IOSXE-RP).

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

```
%IOSXE_RP_SPA-3-IPCPORTFAIL : Failed to open IPC port '[chars]' with error [chars]
```

Explanation The RP failed to open a port for communication with a SPA module.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-IPCSENDFAIL : Failed to send IPC message [chars]
```

Explanation The RP failed to send a message to a SPA module.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-LIC_REG_FAILED : [int]/[int]/[int]: Failed to register license feature [chars], err=[hex]
```

Explanation License registration has been denied by license manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-LIC_REL_FAILED : [int]/[int]/[int]: Failed to release license feature [chars], handle=[hex], err=[hex]
```

Explanation License release has been denied by license manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-LIC_REQ_FAILED : [int]/[int]/[int]: Interface enable not allowed - license request failed , err=[hex]
```

Explanation A 10 Gig License is required to enable this port. License request has been denied by license manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-MAC_FILTER_ADD_FAIL : All the available [dec] mac filters for [chars] have been consumed. Failed to add [enet] for interface [chars]
```

Explanation The hardware cannot support any more filters.

Recommended Action The interface configuration should be reworked to not cross the limit set by the hardware. If the error is still seen please Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-MAX_SPA : Power to IPSEC-SPA-2G in [chars] is denied because it has exceeded the number allowed([dec])
```

Explanation The number of IPSEC-SPA-2G in a chassis is limited. This message is displayed when the number of IPSEC-SPA-2G in the chassis has exceeded this limit.

Recommended Action Use only the number of supported IPSEC-SPA-2G

```
%IOSXE_RP_SPA-3-MISSING_SPA_PKG_ERR : sipspa[chars] package is not installed for
slot = [dec] and subslot = [dec], SPA bootup failed.
```

Explanation This message is displayed when attempting to bootup a SPA without installing a subpackage required for the same.

Recommended Action Download the sub-package required for the affected SPA from the Cisco CCO software download site and install the same. This SPA can be booted in sub-package mode only. Please refer to the Cisco ASR platform documentation for obtaining and installing sub-packages.

```
%IOSXE_RP_SPA-3-MISSING_SPA_PKG_WARN : sipspa[chars] package is not installed in
standby for slot = [dec] and subslot = [dec].
```

Explanation This message is displayed in standby console when attempting to bootup or restart or reload a WMA SPA without installing a subpackage in the standby RP, although the SPA is or will be operational due to prior wma spa package installation in active RP. If switchover takes place the WMA SPA will still be operational. But any subsequent soft or hard oir of the SPA will fail due to missing sub package required to boot up the SPA. Hence it is recommended to complete the wma spa package installation in standby also before switchover or immediately after switchover.

Recommended Action Download the sub-package required for the affected SPA from the Cisco CCO software download site and install the same for the standby RP as is done on active RP. Please refer to the Cisco ASR platform documentation for obtaining and installing sub-packages.

```
%IOSXE_RP_SPA-3-NO_HOST_INFO : slot [dec] subSlot [dec], spaType [hex]
```

Explanation Failed to get information about the host linecard.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-NULL_DATA_STRUCTURE : common_str_empty_str
```

Explanation A SPA driver is not able to retrieve the data structure mentioned in the message. This indicates a software error.

Recommended Action No action is required.

```
%IOSXE_RP_SPA-3-PROGRESSION : Unable to inform RF of bulk sync completion; [chars]
```

Explanation The standby has failed to notify the active that its bulks synchronization of the SPA TSM has completed. The resultant action taken by the standby route processor is an attempt to resynchronize.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_RP_SPA-3-SEND_L2_HDR_MSG_FAIL : slot [dec] subslot [dec]
```

Explanation Failed to send ngio L2 header to iomd.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-SEND_NGIO_MSG_FAIL : NGIO Module message send failed for slot [dec]
subslot [dec]
```

Explanation Failed to send ngio msg to iomd.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-SONET_ALARM_PROC_ERR : [chars] Error has occurred while processing
in the sonet alarm-proc
```

Explanation Either free/create of the memory failed in SONET alarm proc

Recommended Action None

```
%IOSXE_RP_SPA-3-SPA_NO_HOST_INFO : slot [dec] subSlot [dec], PID [chars]
```

Explanation Failed to get information about the host linecard.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-3-SPA_WRONGTYPE : Mismatched SPA type ([dec]) in slot [dec]/[dec]. Ex-
pected type [dec]. Use 'no card [dec]/[dec]' command to override preprovisioning and
update card type.
```

Explanation The SPA inserted does not match the currently provisioned SPA type.

Recommended Action Replace wrong SPA with currently provisioned SPA type, or type 'no card' to allow new card type to be discovered.

```
%IOSXE_RP_SPA-3-UNSUPPORTED_SRVCS_SPA : Service SPA ([hex]) in [dec]/[dec] is not supported. SPA bootup failed.
```

Explanation This message is displayed when attempting to bootup any service SPA in router running non K9 image, i.e., non-crypto image.

Recommended Action Download the K9 IOS XE sub-packages and the required sub-package for the given service SPA from the Cisco CCO software download site and install the same. This SPA can be booted in sub-package mode only. Please refer to the Cisco ASR platform documentation for obtaining and installing sub-packages.

```
%IOSXE_RP_SPA-3-VC_FLOWID_ALLOC_FAIL : Failed to allocate a flow control identifier for VC [dec] under interface [chars]
```

Explanation The SPA driver is not able to allocate the datapath flow control identifier for the VC/interface specified in the message. This indicates a software error.

Recommended Action No action is required.

```
%IOSXE_RP_SPA-3-VC_INGID_ALLOC_FAIL : Failed to allocate a ingress identifier for VC [dec] interface [chars]
```

Explanation The SPA driver is not able to allocate the datapath ingress identifier for the VC/interface specified in the message. This indicates a software error.

Recommended Action No action is required.

```
%IOSXE_RP_SPA-3-VC_PROV_FAIL : Failed to provision interface [chars]
```

Explanation The SPA driver is not able to provision the interface specified in the message. Verify that the SPA hardware is not provisioned above the supported limit. Otherwise, this indicates a hardware error.

Recommended Action No action is required.

```
%IOSXE_RP_SPA-4-CCB_PLAYBACK_ERROR : CCB playback failed for slot [dec].
```

Explanation The High Availability component for SPA modules failed to synchronize some new state information for the specified slot.

Recommended Action Reload the standby supervisor module to force a fresh bulk synchronization. If this error recurs, Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-4-CCB_RECORD_ERROR : CCB record failed for slot [dec].
```

Explanation The High Availability component for SPA modules failed to record some new state information for the specified slot.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-4-IFCFG_CMD_TIMEOUT : Interface configuration command ([hex]) to slot [int]/[int] timed out
```

Explanation The RP sent an configuration command to the slot specified in the error message and received no confirmation for the command.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-4-IFCFG_DFLT_LIST_ERROR : For Interface Configuration command [int], default retval list search resulted [hex] for slot [int]/[int]
```

Explanation The High Availability component for SPA modules failed to synchronize some new state information for the specified slot.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show platform redundancy if-config default-retvals** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-4-IFCFG_PLAYBACK_ERROR : Interface Configuration command [int] playback failed for slot [int]/[int].
```

Explanation The High Availability component for SPA modules failed to synchronize some new state information for the specified slot.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-4-IFCFG_RECORD_ERROR : Interface Configuration command [int] record failed for slot [int]/[int].
```

Explanation The High Availability component for SPA modules failed to record some new state information for the specified slot.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-4-INCR_CFG_SYNC_FAIL : [chars] incremental running-config sync for
[[dec]/[dec]] failed -[chars]([dec]) , Reload Standby
```

Explanation The specified IOSXE incremental running-config sync failed

Recommended Action Power cycle the redundant supervisor

```
%IOSXE_RP_SPA-4-IPCFAILED : IPC failed to send RPC message to SPA module
```

Explanation The RP failed to send an RPC message via IPC to a SPA module.

Recommended Action No action is required.

```
%IOSXE_RP_SPA-4-LCLOG_PARSE_ERR : Error parsing logger message: [chars] from subslot
[int]/[int]
```

Explanation The SPA module passed down a logger message that could not be parsed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-4-LCLOG_TOOLONG : Message too long from slot [int]/[int]: [int] bytes
```

Explanation The SPA module passed down a logger message that is too long for the RP to handle.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-4-SEMAHOG : Process [dec] ([chars]) hogging [chars]! calling proc
[dec] ([chars])
```

Explanation The RP waited too long for a reply to a command sent to a SPA module.

Recommended Action No action is required.

```
%IOSXE_RP_SPA-4-SPA_CMD_NO_RESP : [chars]: No response for interface configuration
command [int]
```

Explanation A timeout occurred while RP was waiting for a response from line card. This may happen due to line card CPU being too busy to respond to the command.

Recommended Action No action is required.

```
%IOSXE_RP_SPA-4-SPA_RESP_CMD_ERR : [chars]: Received response to interface configu-
ration command [chars] with wrong return value [int].
```

Explanation An internal error occurred while configuring the interface. The configuration may not have succeeded.

Recommended Action Check that the running configuration for the interface is correct. If this message is repeatable, please Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-4-SPA_RESP_CMD_MISMATCH : [chars]: Expecting response to interface
configuration command [int] but received response to command [int].
```

Explanation An internal synchronization error occurred while configuring the interface. The configuration may not have succeeded.

Recommended Action Check that the running configuration for the interface is correct. If this message occurred on the standby, try reloading the standby to ensure that its configuration is in sync. If this message is repeatable, please Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_SPA-6-CARDRELOAD : Module [int] reload due to SPA insert in [int]/[int].
```

Explanation When inserting a SPA on this carrier card, the card is reset.

Recommended Action No action is required.

```
%IOSXE_RP_SPA-6-CTRLRSWITCH : switching controller type from [chars]([dec]) to
[chars]([dec]) for subslot [int]/[int].
```

Explanation When IOSXE-SIP40 is inserted in the slot previously occupied by IOSXE-SIP10 or vice-versa the controller type of the card is overwritten to reflect the current SIP.

Recommended Action No action is required.


```
%IOSXE_RP_SPA-6-MEDIA_AUTOFAILOVER : Media Fail over from ([chars]) to ([chars])
```

Explanation Gige Media Failover.

Recommended Action This is informational message, Not an error message. Use 'show interface gig' to see the current active media type.

IOSXE_RP_VTYMGT

```
%IOSXE_RP_VTYMGT-3-MSGBIPCBUFFER : Unable to acquire a BIPC buffer of length [dec]
for sending messages.
```

Explanation A message was to be sent by IOS, but no BIPC buffer was available. The message to be sent has been discarded and the associated operation failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_VTYMGT-3-MSGBIPCERR : Unable to process received BIPC messages for Vty
Management, error: [chars]
```

Explanation An unexpected condition has occurred while IOS was trying to process a received BIPC message for Vty Management.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_VTYMGT-3-MSGBUILDERROR : Error '[dec]' building TDL Vty Management message
'[chars]': [chars]
```

Explanation An unexpected condition has occurred while IOS is building a TDL response message for Vty Management

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_VTYMGT-3-MSGDISPATCH : Unable to dispatch received TDL messages for Vty
Management
```

Explanation An unexpected condition has occurred while IOS is trying to dispatch to the TDL message handler functions for received TDL messages for Vty Management.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_VTYMGT-3-MSGDISPATCHNULL : Received NULL TDL message
```

Explanation An unexpected condition in which IOS has received a NULL TDL message for Vty Management.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_VTYMGT-3-MSGENQUEUEUEERROR : Error queueing TDL Vty Management message
'[chars]'
```

Explanation An unexpected condition has occurred when IOS attempted to queue a TDL response message for Vty Management

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_VTYMGT-3-MSGERROR : Error '[dec]' handling a received TDL message
'[chars]' for Vty Management: [chars]
```

Explanation An unexpected condition has occurred while IOS is processing a received Vty Management TDL message

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_VTYMGT-3-MSGEXTAPPUPDATE : Unable to update external application data for
line '[dec]'
```

Explanation An attempt to update the external application for a line failed unexpectedly. The line update failed and if the line number specified is valid, the line was released.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_RP_VTYMGT-3-MSGINVALIDFIELDINT : Invalid field '[chars]' in TDL message '[chars]' received: value '[int]' for Vty Management
```

Explanation A message with an invalid field value was received for Vty Management

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_VTYMGT-3-MSGINVALIDFIELDSTR : Invalid field '[chars]' value '[chars]' in TDL message '[chars]' received for Vty Management
```

Explanation A message with an invalid field value was received for Vty Management

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_VTYMGT-3-MSGMARSHALERROR : Error '[dec]' marshaling TDL Vty Management message '[chars]': [chars]
```

Explanation An unexpected condition has occurred while IOS is marshaling TDL response message for Vty Management

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_VTYMGT-3-MSGMISSINGFIELD : Missing field '[chars]' in TDL Vty Management message '[chars]' received
```

Explanation A message missing a required field was received for Vty Management

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_VTYMGT-3-MSGVTYCOUNT : Invalid vty count [dec] detected on initialization
```

Explanation Upon initialization, the Vty Management subsystem checks that the number of available vtys for the platform is valid.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_RP_VTYMGT-3-MSGVTYSVCINIT : Unable to initialize the Vty Management service
listen port
```

Explanation The platform IPC services failed to register the Vty Management service's need for a listen port. The Vty Management service will be unable to process requests. IOS services will be unavailable to external access methods.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

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

Explanation This error happens when the Vty Management subsystem failed to set the access control function for the LIIN, possibly due to IOS out of memory or corruption. Persistent access features into IOS will not work.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_SCHED

```
%IOSXE_SCHED-3-AVL_INSERT_FAIL : Could not insert pid [dec] into process tree
```

Explanation An `avl_insert()` failed to add a process structure to the ASR1000 scheduler tree. This should never occur, as the tree is always searched first for the presence of the process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SCHED-3-CALLED_FROM_INT : API call incorrectly made from interrupt level
```

Explanation An external routine provided by the ASR1000 scheduler was incorrectly called from the context of an interrupt handler. This is not a supported use of the external routine; the calling code must be fixed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance

Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SCHED-3-NEGATIVE_DEPTH : Queue '[chars]' consumed more than it produced
([dec])
```

Explanation Based upon internal state derived from calls to `mcp_queue_produced()` and `mcp_queue_consumed()`, more data was consumed from a balanced queue than was produced into it. This is logically impossible, so the presence of this error generally indicates incorrect use of the two above mentioned routines.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SCHED-3-NULLQ : Invalid API parameter
```

Explanation An external routine provided by the ASR1000 scheduler was incorrectly called with an invalid (NULL) pointer.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_SERVICE_ENGINE

```
%IOSXE_SERVICE_ENGINE-3-MSGINITFAIL : Initialization of interface [chars] failed
```

Explanation The initialization of the interface mentioned in the error message has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SERVICE_ENGINE-3-MSGOPENFAIL : Cannot open interface [chars] ([dec])
```

Explanation During the creation of a Service-Engine interface, it is necessary to program the system parameters in the driver. The driver cannot be opened.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SERVICE_ENGINE-3-MSGSETFAIL : Set id on interface [chars] ([dec])
```

Explanation During the creation of a Service-Engine interface, it is necessary to program the system parameters in the driver. The failed to accept the programming.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_SMART_AGENT

```
%IOSXE_SMART_AGENT-3-NOTIFY_OOC : Pool is out of compliance
```

Explanation This pool is Out Of Compliance

Recommended Action The pool is out of compliance. Customer needs to update his license pool

```
%IOSXE_SMART_AGENT-6-NOTIFY_DISABLED : Smart Licensing is now Disabled
```

Explanation Smart Licensing is Disabled

Recommended Action None

```
%IOSXE_SMART_AGENT-6-NOTIFY_ENABLED : Smart Licensing is now Enabled
```

Explanation Smart Licensing is Enabled

Recommended Action None

```
%IOSXE_SMART_AGENT-6-NOTIFY_GRACEWILLEXPIRE : Grace Period will Expire
```

Explanation Grace Period will expire

Recommended Action None

```
%IOSXE_SMART_AGENT-6-NOTIFY_InC : Pool is now in Compliance
```

Explanation Smart Licensing Pool in Compliance

Recommended Action None

IOSXE_SPA

```
%IOSXE_SPA-3-CREATE_TDLH_FAILURE : Failed to create SPA [dec]/[dec] handle
```

Explanation Failed to create message handle for SPA communication.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-CREATE_TDLMSG_FAILURE : Failed to create [chars] message for [chars].
```

Explanation Failed to create/allocate necessary TDL message for SPA communication.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-CREATION_FAILURE : slot=[dec] subslot=[dec], spa_type=[hex],
lc_type=[hex].
```

Explanation Failed to create a SPA object.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-DIAG_CONFIG : [chars] did not complete [dec]/[dec]
```

Explanation An error has occurred during diagnostic test.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-DISPATCH_INIT_TDLH_FAILURE : Failed to initialize dispatch path for SPA
[dec]/[dec] handle
```

Explanation Failed to initialize dispatch path handle for SPA communication.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_SPA-3-DOMAIN_TDLH_FAILURE : [chars], rc = [dec]
```

Explanation Failed to bind message handle for SPA communication.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-INVALID_CPU_NUM : cpu= [dec], max cpu = [dec]
```

Explanation An invalid CPU number is specified in one of the internal APIs.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-INVALID_DATA_INSTANCE : interface type [chars], slot [dec] port [dec]
vc [dec] : [chars]
```

Explanation Data required to support the interface is not available.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-INVALID_DB_NUM : db = [dec], max db = [dec], db intf = [dec], max db
intf = [dec]
```

Explanation An invalid daughter board number is specified in one of the internal APIs.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.


```
%IOSXE_SPA-3-INVALID_HANDLE : Failed to get a valid IPC handle for type [int], slot [dec], subslot [dec].
```

Explanation The client handle was found to be NULL for the given type/slot/subslot.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-INVALID_IF_INDEX : index= [dec], spaType=[hex], slot [dec] subSlot [dec] slotunit [dec] vc [dec]
```

Explanation Index for the interface is not valid.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-INVALID_INDX_RANGE : index1= [dec], index2= [dec], maxIndex= [dec]
```

Explanation An invalid index range is specified in one of the internal APIs.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-INVALID_RP_SLOT_NUM : slot= [dec], max slot = [dec]
```

Explanation An invalid RP slot number is specified in one of the internal APIs.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-INVALID_SLOT_NUM : slot= [dec], max slot = [dec]
```

Explanation An invalid slot number is specified in one of the internal APIs.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-INVALID_SLOTUNIT_NUM : cardwide-port = [dec], max cardwide-port = [dec]
```

Explanation An invalid cardwide-port number is specified in one of the internal APIs.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-INVALID_SPA_TDL_CCAPI_USAGE :
```

Explanation Incorrect usage of an internal API that should only be used on CC.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-INVALID_SUBSLOT_NUM : subslot= [dec], max subslot = [dec]
```

Explanation An invalid subslot number is specified in one of the internal APIs.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-IPC_FAILURE : IPC failure while [chars]
```

Explanation An error has occurred while preparing or sending an IPC message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%IOSXE_SPA-3-MEM_ALLOC_ERROR : [chars]
```

Explanation Memory allocation error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-NULL_BAY_PTR :
```

Explanation Pointer to SPA bay is NULL.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-NULL_SPA_PTR :
```

Explanation Pointer to a SPA object is NULL.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-NULL_VFT : [chars] virtual function table is not initialized.
spaType=[hex]
```

Explanation A required function table is not initialized

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-NULL_VFUNC : [chars] vector is not initialized. spaType=[hex]
```

Explanation A required function vector is not initialized

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-POWER_CYCLE : [chars] occurred on Shared Port Adapter [int]/[int]
```

Explanation An error has occurred which will cause the Shared Port Adapter to be power cycled

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-SENDCFGFAIL : Failed to send configuration for [chars] to carrier-card
for subslot=[dec]/[dec]
```

Explanation Sending configuration failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-SETUP_TDLH_FAILURE : Failed to set the alloc/free handler for SPA
[dec]/[dec] handle
```

Explanation Failed to set the alloc/free handler for SPA communication.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-SPA_CREATION_FAILURE : slot=[dec] subslot=[dec], PID=[chars]
lc_type=[hex].
```

Explanation Failed to create a SPA object.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool:

<https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-SPA_SETUP_FAILURE : Failed to properly setup for SPA communication on
slot [dec], subslot [dec].
```

Explanation Discovery of the linux interface used to communicate with a SPA failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-3-UNSUPPORTED_DATA : Data conversion error ([chars], [hex])
```

Explanation An internal software error has occurred when converting the data specified in the message from one representation to another.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-6-DUAL_RATE_CHANGE : [chars]: [chars]
```

Explanation Change in rate of the link.

Recommended Action No action is required.

```
%IOSXE_SPA-6-TDLMSG_INCOMPATIBLE : Failed to copy message [chars] to buffer, not al-
lowed for current domain.
```

Explanation Failure to marshal a message indicates an incompatibility with the intended recipient.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_SPA-6-UPDOWN : Interface [chars], link down due to [chars]
```

Explanation Ethernet link is down due to remote/local fault.

Recommended Action Replace the faulty cable.

IOSXE_THROUGHPUT

%IOSXE_THROUGHPUT-3-CONF_FAILED : Configuration failed. Installed license does not support the throughput level. Please install the valid license

Explanation An error occurred when the throughput configuration was attempted.

Recommended Action None

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

Explanation Users need to accept EULA to activate the license

Recommended Action Accept EULA for throughput license

%IOSXE_THROUGHPUT-3-INVALID_CONFIG : No valid license found for the configured throughput level: [chars] kbps

Explanation Users has the boot up throughput set to non-default level without having the valid license.

Recommended Action Install valid throughput license

%IOSXE_THROUGHPUT-3-INVALID_LEVEL : An invalid throughput level: [chars] kbps was selected.

Explanation The configured throughput level is unknown

Recommended Action None

%IOSXE_THROUGHPUT-3-SETUP_FAILED : Throughput level setup failed. Boot up will be at the default throughput

Explanation An error occurred when licensing tried to setup the throughput

Recommended Action None

%IOSXE_THROUGHPUT-6-LEVEL : Throughput level has been set to [dec]00000 kbps

Explanation Throughput level has been set to a number

Recommended Action None

IOSXE_TIMESTAMP_ENGINE

```
%IOSXE_TIMESTAMP_ENGINE-3-TSU_ERR : An unexpected condition has occurred at module  
([chars])
```

Explanation An unexpected condition has occurred at the Interface Module TSU.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_TIMESTAMP_ENGINE-4-ERROR : NULL
```

Explanation An unexpected condition has occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_UPGRADE_ROMMON

```
%IOSXE_UPGRADE_ROMMON-0-ROMMON_LOADTEST_FAIL : ROMMON FIPS_140-3 Load test *FAILED*:  
file [chars]
```

Explanation FIPS 140-3 Related Load test failed for the ROMmon.

Recommended Action 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 : ROMMON upgrade failed: partition  
[chars]
```

Explanation An attempt to upgrade the ROMmon failed.

Recommended Action 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.

IOSXE_USB

```
%IOSXE_USB-3-ESHOW_USB : Internal Error locating database for USB Devices.
```

Explanation The `mcp_usb_devices` is incorrect and needs to be changed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_UTD

```
%IOSXE_UTD-3-ALLOC : Failed to allocate message
```

Explanation When attempting to program the dataplane there was not enough memory to allocate the message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_UTD-3-MESSAGE : Failed to send message
```

Explanation When the message was being prepared for sending to the data plane, there was an error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_UTD-4-MT_CONFIG_DOWNLOAD : UTD MT configuration download has [chars]
```

Explanation In UTD multitenancy mode, the configuration download to the container can take a while. Please be patient.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_UTD-4-MT_CONTAINER_MESSAGE_NAK : Container responded to UTD message with an error: [dec]
```

Explanation The container rejected the UTD message

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.


```
%IOSXE_UTD-4-MT_CONTAINER_MESSAGE_TIMEOUT : UTD message sent to the container has
timed out
```

Explanation The UTD message sent to the container has timed out.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_UTD-4-MT_CONTAINER_SESSION_TIMEOUT : UTD container download has timed out
```

Explanation The container did not respond with an up/down status before the session timed out.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_UTD-4-MT_CONTAINER_STATUS_DOWN : UTD poll: container status is DOWN
```

Explanation The container sent a down status to the poll message

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_UTD-4-SIG_UPDATE_CFG : UTD signature updates have been configured -A brief
service interruption at the time of update is expected
```

Explanation The UTD service will be restarted if a new signature package is found. During this time, if fail-close has been configured (recommended), traffic that would be inspected by UTD will be dropped. Otherwise (default), traffic that would be inspected by UTD will be allowed to pass uninspected. To minimize this service interruption, it is recommended to schedule this operation outside of normal business hours.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_UTD-4-SIG_UPDATE_EXEC : UTD signature update has been executed -A brief ser-
vice interruption is expected
```

Explanation The UTD service will be restarted if a new signature package is found. During this time, if fail-close has been configured (recommended), traffic that would be inspected by UTD will be dropped. Otherwise (default), traffic that

would be inspected by UTD will be allowed to pass uninspected. To minimize this service interruption, it is recommended to execute this operation outside of normal business hours.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_UTD-4-VERSION_INCOMPATIBILITY : UTD OVA version ([chars]) does not match supported UTD version ([chars])
```

Explanation The UTD OVA version does not match the required UTD version embedded in this IOS-XE version. This is an unsupported configuration and may behave unexpectedly.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_VMAN

```
%IOSXE_VMAN-3-MSGDISPATCH : Unable to dispatch received TDL message from Virt-manager
```

Explanation An unexpected condition has occurred while IOS was trying to dispatch a TDL message received from Virt-manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_VMAN-3-MSGINITFAIL : Failed to initialize required Virt-manager resource: [chars]
```

Explanation During the initialization of the resources required by Virt-manager, a failure occurred. This has prevented virtual services from being activated.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_VMAN-3-RSPMSGHDLR : Failed to deliver response message: [chars]
```

Explanation An unexpected condition has occurred while IOS was trying to deliver a response message to a virtual service received from Virt-manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_WCCP

```
%IOSXE_WCCP-4-ACELIMIT : Too many ACEs in MASK ACL, please switch to Hash mode
```

Explanation Mask merged ACL generate too many ACEs.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip access-lists** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_WCCP-4-BADACE : Access list contains invalid ace
```

Explanation An unexpected condition has occurred which is due to an invalid statement in the access list structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip access-lists** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_WCCP-4-NOACL : Access list is null
```

Explanation An unexpected condition has occurred which is due to the absence of an access list structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip access-lists** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_WCCP-4-NOINPUT : NULL input, [chars]
```

Explanation An unexpected condition has occurred which is due to the NULL value of the input parameter.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip wccp** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool:

<https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_WCCP-4-NOINTF : No [chars] interface info for Service Group ([dec], [dec], [int])
```

Explanation An unexpected condition has occurred which is due to the absence of MCP WCCP interface info for the specific service group.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show platform software wccp** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_WCCP-4-NOSTATS : WCCP [chars] message error
```

Explanation An unexpected condition has occurred which is due to the error in receiving WCCP stats update message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show platform software wccp <id> counters** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_WCCP-4-NOSTATSINTF : Interface handle [int] not exist for the stats message
```

Explanation An unexpected condition has occurred which can't find the interface handle for the interface stats message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show platform software wccp <id> int counters** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_WCCP-4-NOSTATSSVC : Service Group ([dec], [dec], [int]) not exist for the stats message
```

Explanation An unexpected condition has occurred which can't find the service group for the service group stats message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show platform software wccp** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and

provide the representative with the gathered information.

```
%IOSXE_WCCP-4-NOSVCGRP : [chars] Service Group ([dec], [dec], [int]) NOT exist
```

Explanation An unexpected condition has occurred which is due to the absence of the service group structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show ip wccp** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%IOSXE_WCCP-4-UNKNOWNDIR : Unknown [chars] interface direction [hex] for Service Group ([dec], [dec], [int])
```

Explanation An unexpected condition has occurred which is due to the unknown direction has been applied to the interface for the service group.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show platform software wccp** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_WD

```
%IOSXE_WD-2-HEARTBEAT_FAIL : Heartbeat is not emitted. Heartbeat count:[dec]
```

Explanation Failure in IOS to generate a heartbeat is an abnormal condition

Recommended Action This message may be related to an abnormal configuration and system load, or transient high processing demand. When reporting this message, copy the message text exactly as it appears, include the stack trace and report to your technical support representative

```
%IOSXE_WD-2-HOG_DETECT_FAIL : CPUHOG detection failed to start.
```

Explanation Failure in setting up CPUHOG detection mechanism is an abnormal condition

Recommended Action This message may be related to an abnormal configuration and system load, or transient high processing demand. When reporting this message, copy the message text exactly as it appears, include the stack trace and report to your technical support representative

ISSU

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

Explanation The ISSU state between two FRUs is not properly synchronized as a result of a boot error.

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

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

Explanation A software consolidated package or sub-package has an error that indicates the sub-package should not be installed or used.

Recommended Action If this message is received, the desired consolidated package or sub-package should not be used. Upgrade using a different consolidated package or sub-package, and report the problem consolidated package or sub-package to Cisco technical support.

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

Explanation A consolidated package or sub-package has encountered an error indicating it is not usable.

Recommended Action Upgrade your software using a different consolidated package or sub-package.

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

Explanation After a sub-package installation, one or more FRUs that were upgraded failed to initialize within the timeout period.

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

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

Explanation The sub-packages have encountered an error related to the structure of the loaded software.

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

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

Explanation The ISSU state between two FRUs is not properly synchronized as a result of a boot error.

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

Cisco technical support representative.

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

Explanation A log file was found at bootup indicating that all shutdown tasks were not performed on a previous reload.

Recommended Action No user action is necessary. The system will automatically resolve most issues related to the shutdown task as part of the bootup procedure. If a problem related to the tasks that did not shutdown occurs, another error message will occur providing information about that problem.

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

Explanation The sub-packages specified for running on the chassis are not compatible with one other.

Recommended Action Install a compatible set of packages to allow normal operation. This will require booting a known-good package set.

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

Explanation The software state between two FRUs or switches is not properly synchronized as a result of a boot error.

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

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

Explanation During boottime microcode feature version check, a version mismatch was found for this feature.

Recommended Action Please ensure that versions of features in microcode are compatible by provisioning a different set of microcode files.

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

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

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

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

Explanation The RP has corrected a failed ISSU install state that was detected at bootup.

Recommended Action No user action is necessary. This is an informative message indicating that the failed ISSU state has been corrected.

L

L

LICENSING

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

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

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

LIIN

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

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

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

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

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

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%LIIN-3-VRFADD_FAIL : Problem creating vrf
```

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

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

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representative with the gathered information.

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

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

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

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

Explanation Telnet from shell to IOS allowed because rommon variable SR_INIT_SHELL is set with value aux_do_system_shell. Remove this value from SR_INIT_SHELL or unset SR_INIT_SHELL to disable the telnet access

Recommended Action No action is required.

LOTR_DBG

```
%LOTR_DBG-3-LOTR_RSRS_HA_ERR : [chars]
```

Explanation Resource dynamically allocated are synced to standby. Due to error mentioned , sync failed. So, standby won't be having same database as active

Recommended Action None

LSMPI

```
%LSMPI-4-INJECT_FEATURE_ESCAPE : Egress [chars] packet delivered via legacy inject path
```

Explanation A packet with a CPP supported L3 encapsulation (such as IP) was produced by IOS but delivered to CPP via the L2/legacy inject path instead of the proper L3 inject path. For this packet, outbound features will not be applied and packet accounting will likely be incorrect.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

LUA_VM

```
%LUA_VM-2-INITIALIZATION : Cannot initialize the Lua Virtual Machine
```

M

Explanation The Lua Virtual Machine is a critical component of the shell-manager process. It is used to render responses to user commands. If this component cannot be initialized then the shell-manager will be unable to process any commands directed at the IOS-XE daemons.

Recommended Action The shell-manager process could not be started. Check the trace log files for more details as to why the virtual machine failed to initialize correctly. This may be an out of memory condition so rebooting the chassis may resolve the problem.

M

MACSEC

```
%MACSEC-4-IPMTU_OVERSIZE : MACsec enabled interface [chars] IP MTU can't be more than [dec]
```

Explanation User config IP MTU size over MACsec enabled interface allows.

Recommended Action Reconfigure IP MTU base on the suggested range.

```
%MACSEC-4-RX_SC_EXCEED : (RX SCI [hex] : TX SCI [hex] : vport [dec] : secy vport [dec])
```

Explanation RX SC exceeds hardware limit.

Recommended Action No action required (normal operation).

```
%MACSEC-4-TX_SC_EXCEED : (TX SCI [hex] : vport [dec])
```

Explanation TX SC exceeds hardware limit.

Recommended Action No action required (normal operation).

```
%MACSEC-5-TX_SA_PN_EXPIRE : (TX SCI [hex] : AN [dec]) TX SA PN about to expire.
```

Explanation TX SA PN about to expire. Send a request to MKA to perform a SAK Rekey for the given TX SCI and AN.

Recommended Action No action required (normal operation).

```
%MACSEC-6-CREATE_RX_SC : ([chars] RX SCI [hex] : TX SCI [hex] : vport [dec] : secy vport [dec])
```

Explanation MKA request MACsec PD to create a RX SC on the given RX SCI and vport.

Recommended Action No action required (normal operation).

```
%MACSEC-6-CREATE_TX_SC : ([chars] TX SCI [hex] : vport [dec])
```

Explanation MKA request MACsec PD to create a TX SC on the given TX SCI and vport.

M

Recommended Action No action required (normal operation).

```
%MACSEC-6-DEL_RX_SA : ([chars] RX SCI [hex] : vport [dec] : an [dec])
```

Explanation MKA request MACsec PD to delete a RX SA on the given RX SCI, vport and an.

Recommended Action No action required (normal operation).

```
%MACSEC-6-DEL_RX_SC : ([chars] RX SCI [hex] : vport [dec])
```

Explanation MKA request MACsec PD to delete a RX SC on the given RX SCI and vport.

Recommended Action No action required (normal operation).No action required (normal operation).

```
%MACSEC-6-DEL_TX_SC : ([chars] TX SCI [hex] : vport [dec])
```

Explanation MKA request MACsec PD to delete a TX SC on the given TX SCI and vport.

Recommended Action No action required (normal operation).

```
%MACSEC-6-INSTALL_RX_SA : ([chars] RX SCI [hex] : vport [dec] : an [dec] :  
secy_vport [dec])
```

Explanation MKA request MACsec PD to install a RX SA on the given RX SCI, vport and an.

Recommended Action No action required (normal operation).

```
%MACSEC-6-INSTALL_TX_SA : ([chars] TX SCI [hex] : vport [dec] : an [dec] : next_pn  
[hex])
```

Explanation MKA request MACsec PD to install a TX SA on the given TX SCI, vport and an.

Recommended Action No action required (normal operation).

```
%MACSEC-6-POST_FAIL : ([chars] Power-On-System-Test failure in Trial No.[dec])
```

Explanation MACSEC power-on-system-test failed

Recommended Action No action required (normal operation).

```
%MACSEC-6-POST_SUCC : ([chars] Power-On-System-Test success in Trial No.[dec])
```

Explanation MACSEC power-on-system-test successful

Recommended Action No action required (normal operation).

MCASTV4

```
%MCASTV4-3-OUT_OF_TCAM_IPV4_MCAST : Out of tcam space
```

Explanation Number of IPv4 mcast routes installed exceeded supported scale

Recommended Action Please reduce the number of IPv4 mcast routes configured to supported scale

MCASTV6

```
%MCASTV6-3-OUT_OF_TCAM_IPV6_MCAST : Out of tcam space
```

Explanation Number of IPv6 mcast routes installed exceeded supported scale

Recommended Action Please reduce the number of IPv6 mcast routes configured to supported scale

MCPRP_CLI

```
%MCPRP_CLI-6-LICENSE_EXPIRED : Shell access disabled due to license expiration
```

Explanation Shell license is expired. Thus the shell access is disabled

Recommended Action Get and install another shell license

MCPRP_DAI

```
%MCPRP_DAI-4-ERR_DISABLE : DAI detected error on [chars], putting [chars] to err-disable
```

Explanation Dynamic ARP inspection has detected an error condition because ARP packets have exceeded the configured rate or burst

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

MCP_SYS

```
%MCP_SYS-0-ASSERTION_FAILED : Assertion failed: [chars]
```

Explanation An internal state consistency check failed. Correct operation cannot be guaranteed, and the system has been halted.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS

%MPLS-3-FRR_BDI_UNSUPPORTED : FRR not enabled on [chars]. Unsupported EFP and trunk EFP count [dec]. Supported 1

Explanation LFA FRR support on ASR903 for BDI interface is available with just one EFP or trunk EFP

Recommended Action shutdown the BDI interface. Remove all the EFPs/TEFPs under the BDI. Create just one EFP or TEFP. no shutdown the BDI interface

%MPLS-3-MAX_PW_EXCEEDED : Number of PW's exceeded supported limit [dec]

Explanation Number of PW's exceeded supported scale

Recommended Action Please reduce the number of PW's to supported scale

%MPLS-3-MAX_ROUTED_PW_EXCEEDED : Number of Routed PW's exceeded supported limit [dec]

Explanation Number of Routed PW's exceeded supported scale

Recommended Action Please reduce the number of Routed PW's to supported scale

%MPLS-3-MPLS_MTU_ALLOC_FAIL : Out of resource to allocate mpls mtu

Explanation mpls mtu exceeded supported scale

Recommended Action Please reduce the number of mpls mtu configured values to supported scale

%MPLS-3-MPLS_STALE_LABEL : Stale Label : [int] Neither Allocated nor Deallocated

Explanation Stale Label Neither Allocated nor Deallocated

Recommended Action Don't collect the stats for this instance

%MPLS-3-OUT_OF_LABEL3_SPACE : Out of resource to create labels

Explanation Number of empls 3d labels exceeded supported scale

Recommended Action Please reduce the number of empls 3d labels to supported scale

%MPLS-3-OUT_OF_LABEL_SPACE : Out of resource to create labels

Explanation Number of empls intd labels exceeded supported scale

Recommended Action Please reduce the number of empls intd labels to supported scale

%MPLS-3-VPLS_PORT_DEFAULT_LIF_LEARNING_ENABLE : Default lif learning enable issue on lif [hex] intf [chars]

N

Explanation Learning set/unset in port and default lif

Recommended Action Please enable/disable mpls ip

```
%MPLS-3-VPLS_PORT_LEARNING_ENABLE : Port Learning enable issue on port [chars]
```

Explanation Learning set/unset in port and default lif

Recommended Action Please enable/disable mpls ip on port

N

NCS4200IM

```
%NCS4200IM-3-DIFF_IM_INSERTED : [chars] -[chars] in bay [dec]
```

Explanation A different IM type has been inserted in the bay which previously had another IM type. If the interfaces were set to default before swap, the IM will boot up fine. If not, IM will goto Out-of-service state. Kindly insert the previous IM type, use hw-module subslot 0/x default and then proceed with the IM swap. If not, might need to reload the box for recovery

Recommended Action None

```
%NCS4200IM-3-INCOMPATIBLE : [chars]-[dec]
```

Explanation P1D and onwards, Cu IM... is not backward compatible with P1A/P1B/P1C Cu IM, use the same build of Cu IM or reload the router to use the new build.

Recommended Action None

```
%NCS4200IM-3-INVALID_COMBINATION : [chars] is not allowed in bay [dec], can be supported only in bay(s) [chars]
```

Explanation The inserted IM is not supported in the specified subslot given the combination of existing IMs in the chassis.

Recommended Action None

```
%NCS4200IM-3-UNSUPPORTED : This Interface Module is not supported in subslot [dec]
```

Explanation The inserted IM is not supported in the specified subslot. Kindly check the supported slots for the IM type.

Recommended Action None

```
%NCS4200IM-3-UNSUPPORTED_PLATFORM : This Interface Module is not supported in [chars] platform
```

Explanation The inserted IM is not supported in the specified platform

Recommended Action None**NCS4200INTF**

```
%NCS4200INTF-3-UNSUPPORTED : Interface [chars] is not supported in subslot [dec] by the [chars] module
```

Explanation The Interface specified in the error message is not supported in the specified Subslot by the version of the operating system currently running on the system.

Recommended Action None**NCS4200_PTP**

```
%NCS4200_PTP-3-MSGDISPATCH : Unable to dispatch received TDL message from PTP daemon
```

Explanation An unexpected condition has occurred while IOS was trying to dispatch a TDL message received from PTP daemon.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%NCS4200_PTP-3-MSGINITFAIL : Failed to initialize required PTP resource: [chars]
```

Explanation During the initialization of the resources required by PTP, a failure occurred. This has prevented PTP from being activated.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

NCS4206_CFC

```
%NCS4206_CFC-3-PUNT_KEEPALIVE_ERR_ALLOC_CSB : Failed to allocate a csb
```

Explanation Can't allocate a csb when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%NCS4206_CFC-3-PUNT_KEEPLIVE_ERR_ALLOC_TTY : Failed to allocate a tty
```

Explanation Can't allocate a TTY when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%NCS4206_CFC-3-PUNT_KEEPLIVE_ERR_OPEN_FILE : Failed to open file: [chars]
```

Explanation Failed to open file when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%NCS4206_CFC-3-PUNT_KEEPLIVE_ERR_WRITE_TO_FILE : Write to file Id [dec] failed  
[dec] bytes, expected [dec] bytes
```

Explanation Write to file failed when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%NCS4206_CFC-4-PUNT_KEEPLIVE_ERR_CLOSE_FILE : Failed to close file with descriptor:  
[dec]
```

Explanation Closing of file failed when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%NCS4206_CFC-4-PUNT_KEEPLIVE_ERR_GET_FILE_NAME : Failed to get file name
```

Explanation Could not form a file name when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

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representative with the gathered information.

```
%NCS4206_CFC-4-PUNT_KEEPAALIVE_ERR_INV_FILE_ID : Invalid file descriptor: [dec]
```

Explanation Invalid file descriptor was found when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%NCS4206_CFC-4-PUNT_KEEPAALIVE_ERR_INV_PARAM : Invalid parameter: [chars]
```

Explanation Invalid parameter was passed when generating punt err log

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

NETCLK

```
%NETCLK-4-NETCLK_CMD_FAIL : NULL
```

Explanation This message indicates that a network clock command from RP to IOS-SR or SPAs has failed

Recommended Action The message can be ignored if the carrier card was reloaded or powered down. Otherwise, Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show logging and show network-clocks** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%NETCLK-5-NETCLK_CHANGE : Network clock source transitioned from priority [dec]
[chars] to priority [dec] [chars]
```

Explanation This notice indicates a change in the clock source.

Recommended Action No action required.

```
%NETCLK-5-NETCLK_MODE_CHANGE : Network clock source not available. The network clock
has changed to [chars]
```

Explanation None

Recommended Action No action required

N

`%NETCLK-5-NETCLK_PHASE_LOST : Network clock source not available. Phase-lost on clock priority [dec] [chars]`

Explanation None

Recommended Action No action required

NILE_TCAM

`%NILE_TCAM-3-TCAM_ACL_THRESHOLD : TCAM-above-threshold: TCAM usage more than [dec]%%threshold set for app [chars], asic id [dec]`

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

`%NILE_TCAM-3-TCAM_ACL_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than [dec]%%threshold set for app [chars], asic id [dec]`

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

`%NILE_TCAM-3-TCAM_EQOS_THRESHOLD : TCAM-above-threshold: TCAM usage more than [dec]%%threshold set for app [chars], asic id [dec]`

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

`%NILE_TCAM-3-TCAM_EQOS_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than [dec]%%threshold set for app [chars], asic id [dec]`

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

`%NILE_TCAM-3-TCAM_EVLAN_THRESHOLD : TCAM-above-threshold: TCAM usage more than [dec]%%threshold set for app [chars], asic id [dec]`

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

`%NILE_TCAM-3-TCAM_EVLAN_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than [dec]%%threshold set for app [chars], asic id [dec]`

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_IPV4_TUNNEL_THRESHOLD : TCAM-above-threshold: TCAM usage more than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_IPV4_TUNNEL_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_IPV6_ACL_THRESHOLD : TCAM-above-threshold: TCAM usage more than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_IPV6_ACL_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_IVLAN_THRESHOLD : TCAM-above-threshold: TCAM usage more than [dec]%%threshold set for app [chars], ASIC id [dec]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_IVLAN_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than [dec]%%threshold set for app [chars], ASIC id [dec]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_MCASTV4_THRESHOLD : TCAM-above-threshold: TCAM usage more than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_MCASTV4_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_MCASTV6_THRESHOLD : TCAM-above-threshold: TCAM usage more than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_MCASTV6_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_QOS_THRESHOLD : TCAM-above-threshold: TCAM usage more than [dec]%%threshold set for app [chars], asic id [dec]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_QOS_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than [dec]%%threshold set for app [chars], asic id [dec]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_UCASTV4_THRESHOLD : TCAM-above-threshold: TCAM usage more than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_UCASTV4_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become less than the the threshold level

O

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_UCASTV6_THRESHOLD : TCAM-above-threshold: TCAM usage more than
[dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%NILE_TCAM-3-TCAM_UCASTV6_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less
than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

O

OOM

```
%OOM-0-NO_MEMORY_RESET : The system is completely out of available memory. The board
will be reset.
```

Explanation The system has exhausted all available memory and the hardware component will be reset.

Recommended Action 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 : The system is very low on available memory. Operations will
begin to fail.
```

Explanation The system has exhausted all available memory. It is not possible to continue stable operation.

Recommended Action The system has exhausted all available memory and stable operation is no longer possible.

P

PEGA_PTP_ENABLER

```
%PEGA_PTP_ENABLER-3-PEGA_PTP_LICENSE_EULA_NOT_ACCEPTED :
***** WARNING: PTP License is
not yet activated. Please configure 'license feature ptp'
*****
```

Explanation None

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

PLATFORM

```
%PLATFORM-3-BACKUP_NVRAM_OPEN_FAIL : Failed to open backup nvram -[chars].
```

Explanation The backup nvram device could not be opened.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLATFORM-3-BACKUP_NVRAM_READ_FAIL : Failed to read backup nvram -[chars].
```

Explanation The backup nvram contents could not be read.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLATFORM-3-BACKUP_NVRAM_WRITE_FAIL : Failed to write backup nvram -[chars].
```

Explanation Couldn't write into the backup nvram device.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLATFORM-3-ELEMENT_CRITICAL : [chars]: [chars] value [chars] [chars] critical level [chars]
```

Explanation The Shell Manager monitors the health of each board and emits an error message when a value has passed a critical level.

Recommended Action 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.

```
%PLATFORM-3-GEC_NOMAC : Can't allocate MAC address for port-channel interface [int]
```

Explanation MAC address allocation failed for the port-channel interface specified in the message. This may happen if the port-channel interface exceeds the maximum number of supported port-channel interfaces.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLATFORM-3-HASTATUS_FAIL : RP switchover, [chars] (count [int])
```

Explanation RP switchover failed to reach active state. The RP will be reset. This is indicative of a IPC problem between IOSd and CMRP

Recommended Action Make sure system achieves full redundant state after the RP reset. If not, reload entire system

```
%PLATFORM-3-NO_BASEMAC : Can't retrieve base MAC address
```

Explanation Base MAC address determination failed at system start.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

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

Explanation MAC address allocation failed because of an incorrect slot and port combination, which exceeds the maximum available hardware.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLATFORM-3-NOMAC_INTF : Failed to allocate MAC address for interface [chars]
```

Explanation MAC address allocation failed for logical interface specified in the message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLATFORM-3-NVRAM_OPEN_FAIL : Failed to open nvram -[chars].
```

Explanation The nvram device could not be opened.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLATFORM-3-NVRAM_READ_FAIL : Failed to read nvram -[chars].
```

Explanation The nvram contents could not be read.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLATFORM-3-NVRAM_WRITE_FAIL : Failed to write nvram -[chars].
```

Explanation Couldn't write into the nvram device.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLATFORM-3-REDMODE_FAIL : Redundancy mode: [chars] (rc [dec])
```

Explanation Redundancy mode change could not be processed. This is indicative of a IPC problem between IOSd and the peer platform process.

Recommended Action Make sure system achieves full redundant state. If not, reload entire system

```
%PLATFORM-3-RF_PROG_FAIL : Progression completion notification to chassis management failed, [chars]
```

Explanation Could not notify the completion of the RF progression to the chassis management process. The system will potentially not be in a fully redundant state.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLATFORM-3-RF_RELOAD_PEER : Reload peer notification to chassis management failed, [chars]
```

Explanation Could not notify Reload Peer to the chassis management process. The Standby peer could not be reloaded by the Active. The system will potentially not be in a fully redundant state.

Recommended Action Reload peer instance using the available CLI commands. If system does not achieve full Standby status after that, the system must be reloaded

```
%PLATFORM-4-ELEMENT_WARNING : [chars]: [chars] value [chars] [chars] warning level [chars]
```

Explanation The Shell Manager monitors the health of each board and emits a warning message when a value has passed a critical level.

Recommended Action 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.

```
%PLATFORM-4-HASTATUS_WARN : RP HA status warning, [chars])
```

Explanation Standby RP reports peer not present event. This is indicative of a IPC problem between IOSd and CMRP

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLATFORM-4-RELOAD_STANDBY : [chars] reload requested by [chars]. Reason [chars]
```

Explanation Unexpected configuration or states mismatch between Active and Standby RPs. Reloading Standby to synchronize the configuration or states.

Recommended Action None. This is expected behavior.

```
%PLATFORM-4-STATS_COLLECTION : Reducing statistics collection interval for SPA ([chars]) will impact the RP control plane activity
```

Explanation MIB statistics for HW counters are sent from CC to RP every 10 seconds by default, changing the timer through CLI to send more often will increase RP CPU utilization and result in sending more IPC messages between CC and RP

Recommended Action No action is required.

```
%PLATFORM-6-EVENT_LOG : [chars]
```

Explanation An entry from the internal event log at reload on the standby RP. This is informational.

Recommended Action No action is required.

```
%PLATFORM-6-HASTATUS : RP switchover, [chars]
```

Explanation RP switchover events received by platform code.

Recommended Action No action is required.

P

```
%PLATFORM-6-HASTATUS_DETAIL : RP switchover, [chars] (count [int])
```

Explanation RP switchover events received by platform code.

Recommended Action No action is required.

```
%PLATFORM-6-LOWSPACE : SD [chars] : low space alarm assert
```

Explanation bootflash memory is very low Delete the old file from boot flash to create space

Recommended Action No action is required.

```
%PLATFORM-6-LOWSPACERECOVER : SD [chars] : low space alarm deassert
```

Explanation bootflash memory

Recommended Action No action is required.

```
%PLATFORM-6-RF_PROG_SUCCESS : RF state [chars]
```

Explanation A marker to illuminate when the standby reaches a terminal state.

Recommended Action No action is required.

```
%PLATFORM-6-SB_INIT_DELAY : RF progression will be suspended due to standby initialization delay configuration setting. Standby initialization will resume after [int] seconds
```

Explanation An informational message about the standby initialization delay configuration. RF progression will be delayed for the configured value. Bulk-sync and other progression events will not happen until after the configured delay value

Recommended Action No action is required.

```
%PLATFORM-6-SB_INIT_DELAY_END : RF progression delay timer expired. Standby initialization will now continue
```

Explanation An informational message about the standby initialization delay configuration. RF progression will now continue since configured delay has expired

Recommended Action No action is required.

PLATFORM_ACT2

```
%PLATFORM_ACT2-2-SUDI_VALIDATION_FAILED : Secure UDI validation failed. [chars]
```

Explanation Secure UDI validation for the chassis failed. The router failed to authenticate itself

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

PLATFORM_BRKOUT

```
%PLATFORM_BRKOUT-3-BRKOUTCMD_SYNCFAILED : Failed to send Breakout command to hardware.
```

Explanation A messages that was sent the hardware module, was not delivered correctly. The failure most likely occurred because of a software communication error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

PLATFORM_SCC

```
%PLATFORM_SCC-1-AUTHENTICATION_FAIL : Chassis authentication failed
```

Explanation 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 more information.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

PLATFORM_TAM

```
%PLATFORM_TAM-2-SUDI_VALIDATION_FAILED : Secure UDI validation failed. [chars]
```

Explanation Secure UDI validation for the module failed. The module failed to authenticate itself

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

PLIM_QOS

```
%PLIM_QOS-3-IOSXE_RP_PLIM_QOS_FAIL : A software error while configuring the [chars]  
on slot [dec]
```

Explanation This error happens when IOS fails to send messages to configure the per slot qos parameters in forwarding plane

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

PLOGDRP

```
%PLOGDRP-3-MSGBIPCBUFFER : Unable to acquire a BIPC buffer for sending messages.
```

Explanation A message was to be sent by IOS, but no BIPC buffer was available. The message to be sent has been discarded and the associated operation failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLOGDRP-3-MSGDISPATCHERR : Error when receiving TDL error message: [chars]
```

Explanation An unexpected condition in which IOS has received an error during TDL message processing from the Proxy Logger.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLOGDRP-3-MSGDISPATCHERR_SIZE : Received TDL error message is larger than supported  
size :[dec]
```

Explanation A TDL message larger than supported has been received and partial message of that is displayed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLOGDRP-3-MSGDISPATCHNULL : Received NULL TDL message
```

Explanation An unexpected condition in which IOS has received a NULL TDL message for the Proxy Logger.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLOGDRP-3-MSGINVALIDFIELD : Invalid errmsg field '[chars]' received from the Proxy
Logger, error [dec]
```

Explanation An error message received from the Proxy Logger is missing a required field.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%PLOGDRP-4-MSGDISPATCH : Unable to dispatch received TDL message '[chars]' from
Proxy Logger. LUID: [chars]
```

Explanation An unexpected condition has occurred while IOS is trying to dispatch to the TDL message handler functions for received TDL messages from Proxy Logger.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

PMAN

```
%PMAN-0-PROCESS_NOTIFICATION : The process lifecycle notification component failed
because [chars]
```

Explanation 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.

Recommended Action 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 : A critical process [chars] has failed (rc [dec])
```

Explanation A process important to the functioning of the router has failed.

Recommended Action 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.

```
%PMAN-3-PROC_BAD_COMMAND : Non-existent executable or bad library used for process [chars]
```

Explanation The executable file used for the process is missing or a dependent library is bad

Recommended Action Make sure that the named executable is present and dependent libraries are good

```
%PMAN-3-PROC_BAD_EXECUTABLE : Bad executable or permission problem with process [chars]
```

Explanation The executable file used for the process is bad or has permission problem

Recommended Action Make sure that the named executable is replaced with correct executable

```
%PMAN-3-PROC_EMPTY_EXEC_FILE : Empty executable used for process [chars]
```

Explanation The executable file used for the process is empty

Recommended Action Make sure that the named executable is of non-zero size

```
%PMAN-3-PROCFAIL : The process [chars] has failed (rc [dec])
```

Explanation The process has failed as the result of an error.

Recommended Action 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-PROCFAIL_IGNORE : [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.
```

Explanation A process exit or failure is being ignored due to the user-configured debug settings.

Recommended Action 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-PROCFAILLOPT : An optional process [chars] has failed (rc [dec])
```

Explanation A process that does not affect the forwarding of traffic has failed.

Recommended Action 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.

```
%PMAN-3-PROCHOLDDOWN : The process [chars] has been helddown (rc [dec])
```

Explanation The process was restarted too many times with repeated failures and has been placed in the holddown state.

Recommended Action 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_RESTART_CNT_EXCEEDED : The process [chars] restart count ([dec]) has exceeded the configured limit ([dec])
```

Explanation The process was restarted many times and has exceeded the configured limit.

Recommended Action 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 : 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.
```

Explanation A supervisor failure is being ignored due to debugging purposes.

Recommended Action This will be removed at a later point in time

```
%PMAN-3-RELOAD_RP : Reloading: [chars]
```

Explanation The RP is being reloaded

Recommended Action 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 : Reloading: [chars]
```

Explanation The RP is being reloaded since there is no ready standby instance

Recommended Action Make sure this is not due to an error condition

```
%PMAN-3-RELOAD_SYSTEM : Reloading: [chars]
```

Explanation The system is being reloaded

Recommended Action 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 : RP switch initiated. Critical process [chars] has failed (rc [dec])
```

Explanation A RP switchover has been initiated due to a critical fault

Recommended Action 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 : Process manager is exiting: [chars]
```

Explanation The process manager is exiting

Recommended Action 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-PROCSTART : The process [chars] has shutdown
```

Explanation The process has gracefully shutdown.

Recommended Action No user action is necessary. This message is provided for informational purposes only.

```
%PMAN-6-PROCSTART : The process [chars] has started
```

Explanation The process has launched and is operating properly.

Recommended Action No user action is necessary. This message is provided for informational purposes only.

```
%PMAN-6-PROCSTATELESS : The process [chars] is restarting stateless
```

Explanation The process has requested a stateless restart.

Recommended Action No user action is necessary. This message is provided for informational purposes only.

PTPD

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

Explanation The hardware failed to create a chassis filesystem object.

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

support representative.

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

Explanation A chassis filesystem object expected to be present is not. This could be due to a software defect or filesystem failure.

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

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

Explanation A chassis filesystem object was not watched because of the reason stated in the error message.

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

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

Explanation A chassis filesystem property was not properly created.

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

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

Explanation A chassis filesystem property was not properly read by the system.

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

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

Explanation A chassis filesystem object property expected to be present is not. This could be due to a software defect or filesystem failure.

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

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

Explanation A chassis filesystem property failed to write.

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

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

Explanation An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.

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

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

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

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

```
%PTPD-0-IPC_CONNECT_MASTER : IPC connection to the active RSP failed because [chars]
```

Explanation IPC connection to the active RSP failed. This could be due to a software defect or system resource exhaustion.

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

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

Explanation IPC initialization failed. This could be due to a software defect or system resource exhaustion.

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

```
%PTPD-0-MESSAGE_REGISTER : Failed to register with active RSP because [chars]
```

Explanation The active RSP failed to register.

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

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

Explanation Failed to relay a message. This could be due to a software defect or system resource exhaustion.

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

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

Explanation An invalid message response was received. This could be due to a software defect or system resource exhaustion.

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

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

Explanation The MQIPC initialization failed.

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

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

Explanation MQIPC initialization failed. This could be due to a software defect or system resource exhaustion.

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

Q

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

Explanation A peer table initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.

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

```
%PTPD-0-RESOURCE : Resource allocation failed in [chars] because [chars]
```

Explanation The system is unable to allocate the requested resource.

Recommended Action 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.

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

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

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

```
%PTPD-3-CHASFS_PROPERTY_DESTROY : Failed to destroy chassis filesystem property [chars]/[chars] because [chars]
```

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

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

Q

QOSMGR

```
%QOSMGR-3-ASIC_PROGRAMMING_FAIL : Fails to program the ASIC for policymap [chars]
```

Explanation Can not access to HW successfully.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search

Q

Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%QOSMGR-3-ASIC_PROGRAMMING_FAIL (DUPLICATE) : Fails to program the ASIC for policy-
map [chars]
```

Explanation Can not access to HW successfully.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%QOSMGR-3-BANDWIDTH_CHILD_ERROR : Bandwidth in one of the children class is greater
than input bandwidth
```

Explanation Children class's bandwidth should not be greater

Recommended Action Either increase input value or decrease erring one

```
%QOSMGR-3-BANDWIDTH_CHILD_ERROR (DUPLICATE) : Bandwidth in one of the children class
is greater than input bandwidth
```

Explanation Children class's bandwidth should not be greater

Recommended Action Either increase input value or decrease erring one

```
%QOSMGR-3-BANDWIDTH_LEVEL_ERROR : Bandwidth command not acceptable at interface
level
```

Explanation Hardware does not support bandwidth at physical level

Recommended Action Do not apply bandwidth command at interface level policy

```
%QOSMGR-3-BANDWIDTH_LEVEL_ERROR (DUPLICATE) : Bandwidth command not acceptable at
interface level
```

Explanation Hardware does not support bandwidth at physical level

Recommended Action Do not apply bandwidth command at interface level policy

```
%QOSMGR-3-BANDWIDTH_OVERSUBSCRIBED : Bandwidth oversubscribed in the interface
```

Explanation Sum of committed bandwidth at a particular level exceeds the sum total of interface's max bandwidth

Recommended Action Reduce the committed bandwidth to be less than interface's max bandwidth

Q

%QOSMGR-3-BANDWIDTH_OVERSUBSCRIBED (DUPLICATE) : Bandwidth oversubscribed in the interface

Explanation Sum of committed bandwidth at a particular level exceeds the sum total of interface's max bandwidth

Recommended Action Reduce the committed bandwidth to be less than interface's max bandwidth

%QOSMGR-3-BANDWIDTH_PARENT_ERROR : Sum of bandwidths is greater than parent class's bandwidth

Explanation Total bandwidth of the classes at the same level exceeds the parent class's bandwidth

Recommended Action Reduce the bandwidth value

%QOSMGR-3-BANDWIDTH_PARENT_ERROR (DUPLICATE) : Sum of bandwidths is greater than parent class's bandwidth

Explanation Total bandwidth of the classes at the same level exceeds the parent class's bandwidth

Recommended Action Reduce the bandwidth value

%QOSMGR-3-BANDWIDTH_PARENT_SHAPE_ERROR : Sum of bandwidths is greater than parent class's shape (PIR)

Explanation Total bandwidth of the classes at the same level exceeds the parent class's shape(PIR) value

Recommended Action Reduce the bandwidth value

%QOSMGR-3-BANDWIDTH_PARENT_SHAPE_ERROR (DUPLICATE) : Sum of bandwidths is greater than parent class's shape (PIR)

Explanation Total bandwidth of the classes at the same level exceeds the parent class's shape(PIR) value

Recommended Action Reduce the bandwidth value

%QOSMGR-3-BANDWIDTH_SHAPE_ERROR : Bandwidth configured is greater than shape(PIR) of the class

Explanation Bandwidth should not be greater than shape value

Recommended Action Reduce the bandwidth value to less than class's shape(PIR) value

%QOSMGR-3-BANDWIDTH_SHAPE_ERROR (DUPLICATE) : Bandwidth configured is greater than shape(PIR) of the class

Explanation Bandwidth should not be greater than shape value

Recommended Action Reduce the bandwidth value to less than class's shape(PIR) value

Q

%QOSMGR-3-EFP_SHAPE_RESTRICTION : EFP policies cannot have shape command at physical level and more than one logical level classes

Explanation Since the HW does not support four level hierarchy, EFP policies sit in pseudo level between Physical and Logical level

Recommended Action Either remove vlan hierarchy in the **EFP policy or do not configure shape** command at physical level

%QOSMGR-3-EFP_SHAPE_RESTRICTION (DUPLICATE) : EFP policies cannot have shape command at physical level and more than one logical level classes

Explanation Since the HW does not support four level hierarchy, EFP policies sit in pseudo level between Physical and Logical level

Recommended Action Either remove vlan hierarchy in the **EFP policy or do not configure shape** command at physical level

%QOSMGR-3-EGRESS_MARKING_PROFILES_EXHAUSTED : Egress marking profiles have exceeded the maximum number [dec]

Explanation No free egress cos marking profile to accommodate the request

Recommended Action Change config to reuse the existing profiles

%QOSMGR-3-EQOS_CXT_EXCEEDED : Maximum Egress QoSContexts consumed in the Bridge-Domain

Explanation Number of Egress QoS vlan matches exceeds the maximum allowed in the Bridge-Domain

Recommended Action Reduce the number of Egress QoS vlan matches in the Bridge-Domain and try again

%QOSMGR-3-EQOS_CXT_EXCEEDED (DUPLICATE) : Maximum Egress QoSContexts consumed in the Bridge-Domain

Explanation Number of Egress QoS vlan matches exceeds the maximum allowed in the Bridge-Domain

Recommended Action Reduce the number of Egress QoS vlan matches in the Bridge-Domain and try again

%QOSMGR-3-INGRESS_MARKING_PROFILES_EXHAUSTED : Ingress marking profiles have exceeded the maximum number [dec]

Explanation No free ingress cos marking profile to accommodate the request

Recommended Action Change config to reuse the existing profiles

%QOSMGR-3-INGRESS_QOSGROUP_MARKING_PROFILES_EXHAUSTED : Ingress Exp and qos-group marking profiles have exceeded the maximum number [dec]

Explanation No free ingress qos-group marking profile to accommodate the request

Recommended Action Change config to reuse the existing profiles

```
%QOSMGR-3-INGRESS_QOS_HANDLE_EXCEEDED : Internal Error in resource allocation
```

Explanation The system is running out of qos-handle to support specified policy-map.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%QOSMGR-3-INGRESS_QOS_HANDLE_EXCEEDED (DUPLICATE) : Internal Error in resource allocation
```

Explanation The system is running out of qos-handle to support specified policy-map.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%QOSMGR-3-INGRESS_QOS_PROFILED_EXCEEDED : Internal Error in resource allocation
```

Explanation The system is running out of qos-profiled to support the specified policy-map.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%QOSMGR-3-INGRESS_QOS_PROFILED_EXCEEDED (DUPLICATE) : Internal Error in resource allocation
```

Explanation The system is running out of qos-profiled to support the specified policy-map.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%QOSMGR-3-L4OP_ACL_NEQ_CONFLICT : NEQ L4 operation not supported
```

Explanation Trying to configure NEQ operation.

Recommended Action Remove QOS ACL configured on interface.

Q

```
%QOSMGR-3-L4OP_ACL_PORT_CONFLICT : Port ranger is already allocated to ACL on this interface. QoS policy configuration failed. Remove QoS command from interface[chars]
```

Explanation ACL configured on this interface uses Port ranger. Remove ACL configuration, apply QoS first and then configure ACL

Recommended Action Remove ACL configured on interface.

```
%QOSMGR-3-L4OP_ACL_RESERVATION_EXHAUSTED : Port ranger resource reserved for ACL exhausted, port expansion used [chars]
```

Explanation Port ranger is shared between ACL and v6 QoS ACL. ACL reservation exhausted

Recommended Action Remove ACL configuration or increase reservation through ROMMON variable QOS_PORTRANGE_RESOURCE

```
%QOSMGR-3-L4OP_PORT_RANGE_VCU_PER_PORT_EXCEEDED : Port range entry on this interface has exceeded maximum permitted 8 operations further 14 match ACE will be ignored[chars]
```

Explanation Interface already has maximum permitted 8 14 operations

Recommended Action Configure only 8 14 match ACE per interface

```
%QOSMGR-3-L4OP_QOS_PORT_CONFLICT : Port ranger is allocated to QoS on this interface, port expansion used for configured ACL [chars]
```

Explanation IPv6 QoS configured on this interface uses Port ranger

Recommended Action Remove IPv6 QoS configured on interface.

```
%QOSMGR-3-L4OP_QOS_RESERVATION_EXHAUSTED : Port ranger resource reserved for QoS exhausted. policy configuration failed Remove other IPv6 QoS configuration or increase reservation through ROMMON [chars]
```

Explanation Port ranger is shared between ACL and v6 QoS ACL. QoS reservation exhausted

Recommended Action Remove other IPv6 QoS ACL configuration or increase reservation through ROMMON QOS_PORTRANGE_RESOURCE

```
%QOSMGR-3-LABEL_EXHAUST : Internal Error in resource allocation
```

Explanation The system is running out of QoS label to support the number of traffic classes in all attached policy-maps.

Recommended Action Reduce the number of distinctive class-maps matches or 'set' actions in attached policy-map(s)

```
%QOSMGR-3-LABEL_EXHAUST (DUPLICATE) : Internal Error in resource allocation
```

Explanation The system is running out of QoS label to support the number of traffic classes in all attached policy-maps.

Recommended Action Reduce the number of distinctive class-maps matches or 'set' actions in attached policy-map(s)

```
%QOSMGR-3-LOGICAL_RESOURCE_EXHAUSTED : Logical level queuing resource exhausted  
[chars]
```

Explanation Maximum resources used

Recommended Action Free up unused logical level classes

```
%QOSMGR-3-LOGICAL_RESOURCE_EXHAUSTED (DUPLICATE) : Logical level queuing resource  
exhausted [chars]
```

Explanation Maximum resources used

Recommended Action Free up unused logical level classes

```
%QOSMGR-3-MANUAL_SHAPE_EXCEEDS_SPEED : Invalid policy-map detected during interface  
speed change
```

Explanation Shape value in policy exceeds port speed

Recommended Action Configure lesser shape value which will not exceed interface speed

```
%QOSMGR-3-MANUAL_SHAPE_EXCEEDS_SPEED (DUPLICATE) : Invalid policy-map detected dur-  
ing interface speed change
```

Explanation Shape value in policy exceeds port speed

Recommended Action Configure lesser shape value which will not exceed interface speed

```
%QOSMGR-3-MARKING_PROFILES_EXHAUSTED : Out of marking profiles to execute command
```

Explanation No free marking profile to accommodate the request

Recommended Action Change config to reuse the existing profiles

```
%QOSMGR-3-MAX_QLIMIT_COMMANDS_EXCEEDED : Exceeding the maximum queue-limit commands  
per class
```

Explanation Trying to exceed the maximum queue-limit commands allowed per class

Recommended Action Try reducing queue-limit commands under the class

```
%QOSMGR-3-MAX_QLIMIT_COMMANDS_EXCEEDED (DUPLICATE) : Exceeding the maximum queue-  
limit commands per class
```

Explanation Trying to exceed the maximum queue-limit commands allowed per class

Q

Recommended Action Try reducing queue-limit commands under the class

```
%QOSMGR-3-MAX_QUALIFIED_QLIMIT_COMMANDS_EXCEEDED : Exceeding the maximum qualified
queue-limit commands per class
```

Explanation Trying to exceed the maximum qualified queue-limit commands allowed per class

Recommended Action Try reducing qualified queue-limit commands under the class

```
%QOSMGR-3-MAX_QUALIFIED_QLIMIT_COMMANDS_EXCEEDED (DUPLICATE) : Exceeding the maximum
qualified queue-limit commands per class
```

Explanation Trying to exceed the maximum qualified queue-limit commands allowed per class

Recommended Action Try reducing qualified queue-limit commands under the class

```
%QOSMGR-3-OUT_OF_TCAM_RESOURCES : Out of tcam resources to execute command
```

Explanation Lack of tcam resources due to higher tcam resource requirements

Recommended Action Change config to reduce tcam entry usage

```
%QOSMGR-3-OUT_OF_TCAM_RESOURCES (DUPLICATE) : Out of tcam resources to execute com-
mand
```

Explanation Lack of tcam resources due to higher tcam resource requirements

Recommended Action Change config to reduce tcam entry usage

```
%QOSMGR-3-POLICER_PROGRAMMING_FAIL : Fails to program HW policer
```

Explanation Can not access to HW successfully.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%QOSMGR-3-POLICER_PROGRAMMING_FAIL (DUPLICATE) : Fails to program HW policer
```

Explanation Can not access to HW successfully.

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Q

```
%QOSMGR-3-PORTCH_CONFIG_ERROR : Port channel [dec] configuration still exists at the hardware level. Please re-execute the CLI after ensuring that there is no Port-Channel configuration at the hardware.
```

Explanation Port-channel is still not removed completely from hardware. Wait till platform config is removed and then reapply

Recommended Action Wait till Port-channel is properly removed from hardware and then proceed with the configuration of platform CLI .

```
%QOSMGR-3-PRIORITY_LEVEL_ERROR : Priority command not acceptable at interface level
```

Explanation Hardware does not support priority at physical level

Recommended Action Do not apply bandwidth command at interface level policy

```
%QOSMGR-3-PRIORITY_LEVEL_ERROR (DUPLICATE) : Priority command not acceptable at interface level
```

Explanation Hardware does not support priority at physical level

Recommended Action Do not apply bandwidth command at interface level policy

```
%QOSMGR-3-PROFILE_EXHAUST : No free scheduler profiles available in hardware
```

Explanation With the new configuration, there is no free profile available in the HW, this could be because of dissimilar profiles configured at the same hierarchy level

Recommended Action Change the config value to closest existing config

```
%QOSMGR-3-PROFILE_EXHAUST (DUPLICATE) : No free scheduler profiles available in hardware
```

Explanation With the new configuration, there is no free profile available in the HW, this could be because of dissimilar profiles configured at the same hierarchy level

Recommended Action Change the config value to closest existing config

```
%QOSMGR-3-PROFILES_EXHAUSTED : Out of rm profiles to execute command
```

Explanation No free RM profile to accommodate the request

Recommended Action Change config to reduce or reuse RM profiles

```
%QOSMGR-3-PROFILES_EXHAUSTED (DUPLICATE) : Out of rm profiles to execute command
```

Explanation No free RM profile to accommodate the request

Recommended Action Change config to reduce or reuse RM profiles

Q

%QOSMGR-3-PROTOCOL_NOT_SUPPORTEDED_FOR_POLICY : The configured protocol is not supported in QoS policy

Explanation Configured protocol is not supported for QoS Policy. Traffic will be matched with alternative class-maps/class-default

Recommended Action Unconfigure the ACE with unsupported protocol, detach and re-attach the policy

%QOSMGR-3-PROTOCOL_NOT_SUPPORTEDED_FOR_POLICY (DUPLICATE) : The configured protocol is not supported in QoS policy

Explanation Configured protocol is not supported for QoS Policy. Traffic will be matched with alternative class-maps/class-default

Recommended Action Unconfigure the ACE with unsupported protocol, detach and re-attach the policy

%QOSMGR-3-QLIMIT_LEVEL_ERROR : Qlimit command not supported in non-leaf classes

Explanation Trying to configure qlimit in a non leaf class

Recommended Action Configure qlimit only in leaf classes

%QOSMGR-3-QLIMIT_LEVEL_ERROR (DUPLICATE) : Qlimit command not supported in non-leaf classes

Explanation Trying to configure qlimit in a non leaf class

Recommended Action Configure qlimit only in leaf classes

%QOSMGR-3-QLIMIT_VALUE_OUT_OF_RANGE : Qlimit value is out of range

Explanation Trying to configure a qlimit value outside the supported range

Recommended Action Configure qlimit value within supported range

%QOSMGR-3-QLIMIT_VALUE_OUT_OF_RANGE (DUPLICATE) : Qlimit value is out of range

Explanation Trying to configure a qlimit value outside the supported range

Recommended Action Configure qlimit value within supported range

%QOSMGR-3-QOSMGR_POLICYMAP_ERROR : policy-map applied on [chars] is in error condition

Explanation The policy-map applied on the printed target may not work or the stats for that target will not work.

Recommended Action Collect the uea_mgr logs

%QOSMGR-3-QUEUE_EXHAUSTED : Class level queuing resource exhausted [chars]

Q

Explanation Maximum resources used

Recommended Action Free up unused class level classes

```
%QOSMGR-3-QUEUE_EXHAUSTED (DUPLICATE) : Class level queuing resource exhausted
[chars]
```

Explanation Maximum resources used

Recommended Action Free up unused class level classes

```
%QOSMGR-3-QUEUE_FLUSH_FAILED : Queue-Flush not successful
```

Explanation Scheduler unable to flush the queue

Recommended Action Remove any shape configuration for the queue

```
%QOSMGR-3-QUEUE_FLUSH_FAILED (DUPLICATE) : Queue-Flush not successful
```

Explanation Scheduler unable to flush the queue

Recommended Action Remove any shape configuration for the queue

```
%QOSMGR-3-SCHEDULER_PROGRAMMING_FAIL : Fails to program HW scheduler
```

Explanation Can not access to HW successfully.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%QOSMGR-3-SCHEDULER_PROGRAMMING_FAIL (DUPLICATE) : Fails to program HW scheduler
```

Explanation Can not access to HW successfully.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%QOSMGR-3-SHAPE_BANDWIDTH_PERCENT_ERROR : Shape -Bandwidth-percent values incon-
sistent in the hierarchy, calculated bandwidth will exceed shape
```

Explanation Because of this new shape command Bandwidth percent configured in one of children class will get more value than its manually configured shape. Please note that bandwidth percent is calculated from parent's shape(PIR)

Q

Recommended Action Either configure higher shape value or reduce violating bandwidth-percent value

```
%QOSMGR-3-SHAPE_BANDWIDTH_PERCENT_ERROR (DUPLICATE) : Shape -Bandwidth-percent values inconsistent in the hierarchy, calculated bandwidth will exceed shape
```

Explanation Because of this new shape command Bandwidth percent configured in one of children class will get more value than its manually configured shape. Please note that bandwidth percent is calculated from parent's shape(PIR)

Recommended Action Either configure higher shape value or reduce violating bandwidth-percent value

```
%QOSMGR-3-SHAPE_CHILD_BANDWIDTH_ERROR : Bandwidth in one of the children class is greater than input shape value
```

Explanation Children class's bandwidth should not be higher than input

Recommended Action Either increase input value or decrease erring one

```
%QOSMGR-3-SHAPE_CHILD_BANDWIDTH_ERROR (DUPLICATE) : Bandwidth in one of the children class is greater than input shape value
```

Explanation Children class's bandwidth should not be higher than input

Recommended Action Either increase input value or decrease erring one

```
%QOSMGR-3-SHAPE_CHILD_ERROR : One of children class's shape config is higher
```

Explanation Children class's shape should not be higher than current

Recommended Action Either increase input value or decrease erring one

```
%QOSMGR-3-SHAPE_CHILD_ERROR (DUPLICATE) : One of children class's shape config is higher
```

Explanation Children class's shape should not be higher than current

Recommended Action Either increase input value or decrease erring one

```
%QOSMGR-3-SHAPE_PARENT_ERROR : Shape value is greater than parent class's shape or interface's speed
```

Explanation Parent class's shape value cannot be smaller than current

Recommended Action Configure shape value lesser than parent class's shape or interface's speed

```
%QOSMGR-3-SHAPE_PARENT_ERROR (DUPLICATE) : Shape value is greater than parent class's shape or interface's speed
```

Explanation Parent class's shape value cannot be smaller than current

Recommended Action Configure shape value lesser than parent class's shape or interface's speed

```
%QOSMGR-3-SHAPE_UNDERFLOW : New shape/speed value is less than the total bandwidth
configured in the interface
```

Explanation Shape/speed configured is less than the total bandwidth configured in the interface

Recommended Action Increase the shape/speed value or reduce the bandwidth configured in the child classes

```
%QOSMGR-3-SHAPE_UNDERFLOW (DUPLICATE) : New shape/speed value is less than the total
bandwidth configured in the interface
```

Explanation Shape/speed configured is less than the total bandwidth configured in the interface

Recommended Action Increase the shape/speed value or reduce the bandwidth configured in the child classes

```
%QOSMGR-3-TABLEMAP_EXHAUST : Internal Error in resource allocation
```

Explanation The system is running out of table-map resources

Recommended Action Reduce the number of distinctive class-map matches in attached policy-map(s)

```
%QOSMGR-3-TCAM_EXHAUSTION : Internal Error in resource allocation
```

Explanation The system is running out of TCAM entries to support the number of traffic classes in the policy-map. The maximum number of TCAM entries is platform dependent.

Recommended Action Reduce the number of classes in attached policy-map(s)

```
%QOSMGR-3-TCAM_EXHAUSTION (DUPLICATE) : Internal Error in resource allocation
```

Explanation The system is running out of TCAM entries to support the number of traffic classes in the policy-map. The maximum number of TCAM entries is platform dependent.

Recommended Action Reduce the number of classes in attached policy-map(s)

```
%QOSMGR-3-TCAM_PROGRAMMING_FAIL : Fails to program TCAM for policymap [chars]
```

Explanation Can not access to HW successfully.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%QOSMGR-3-TCAM_PROGRAMMING_FAIL (DUPLICATE) : Fails to program TCAM for policymap
[chars]
```


Q

Explanation Can not access to HW successfully.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%QOSMGR-3-TDM_OC_HIERARCHY_UNSUPPORTED : Only two-level hierarchy is supported on
TDM/OC3/OC12 interfaces
```

Explanation Unsupported QoS hierarchy on TDM/OC3/OC12 interfaces

Recommended Action Change config to reduce to two-level policy

```
%QOSMGR-3-TDM_OC_HIERARCHY_UNSUPPORTED (DUPLICATE) : Only two-level hierarchy is
supported on TDM/OC3/OC12 interfaces
```

Explanation Unsupported QoS hierarchy on TDM/OC3/OC12 interfaces

Recommended Action Change config to reduce to two-level policy

```
%QOSMGR-3-UNSUPPORTED_QLIMIT_UNITS : Qlimit unit other than usec & byte is not sup-
ported
```

Explanation Trying to configure a qlimit unit other than bytes or usec

Recommended Action Configure qlimit in terms of bytes or usec

```
%QOSMGR-3-UNSUPPORTED_QLIMIT_UNITS (DUPLICATE) : Qlimit unit other than usec & byte
is not supported
```

Explanation Trying to configure a qlimit unit other than bytes or usec

Recommended Action Configure qlimit in terms of bytes or usec

```
%QOSMGR-4-EGG_AGG_POL_BLOCK_EXCEEDING_HW : Number of output child policer's are more
than the block size. Configure the block size accordingly [chars]
```

Explanation The system is running out of policers to support the specified policy-maps.

Recommended Action Reduce the number of policer usage in attached input policy-map(s).

```
%QOSMGR-4-EGG_AGG_POLICER_EXCEEDING_HW : Output Parent policer block size can't be
allocated configuration has exceeded hardware limitation for policymap [chars]
```

Explanation The system is running out of policers to support the specified policy-maps.

Recommended Action Reduce the number of policer usage in attached input policy-map(s).

Q

```
%QOSMGR-4-GPORT_SCHEDULER_EXCEEDING_HW : [chars] has exceeded the hardware limitation
```

Explanation The system is running out of output queues to support the specified policy-map.

Recommended Action Remove the EFPs from the interfaces

```
%QOSMGR-4-IDMGR_RESOURCE_EXCEEDED : [chars] has exceeded its maximum number : [dec]
```

Explanation Max number of FLOW ID allocation has reached

Recommended Action reduce the number of flow id allocation for the interface

```
%QOSMGR-4-INVALID_POLICYMAP_DUE_NON_QOS_EVENT : The policy-map [chars] is detached due to the event [chars].
```

Explanation The attached policy-map becomes invalid due to the change of the port speed.

Recommended Action Change the shaping/bandwidth of the output policy-map and re-attach to the interface .

```
%QOSMGR-4-INVALID_POLICYMAP_DUE_NON_QOS_EVENT (DUPLICATE) : The policy-map [chars] is detached due to the event [chars].
```

Explanation The attached policy-map becomes invalid due to the change of the port speed.

Recommended Action Change the shaping/bandwidth of the output policy-map and re-attach to the interface .

```
%QOSMGR-4-POLICER_EXCEEDING_HW : Policer configuration has exceeded hardware limitation for policymap [chars]
```

Explanation The system is running out of policers to support the specified policy-maps.

Recommended Action Reduce the number of policer usage in attached input policy-map(s).

```
%QOSMGR-4-POLICER_EXCEEDING_HW (DUPLICATE) : Policer configuration has exceeded hardware limitation for policymap [chars]
```

Explanation The system is running out of policers to support the specified policy-maps.

Recommended Action Reduce the number of policer usage in attached input policy-map(s).

```
%QOSMGR-4-POLICER_PROFILE_EXCEEDED : Policer profiles have exceeded the maximum number [dec]
```

Explanation Max number for Qos policer profiles has reached

Recommended Action Reduce the number of policer usage in attached input policy-map(s).

R

```
%QOSMGR-4-QUEUE_EXCEEDING_HW : Queue configuration has exceeded hardware limitation
for policymap [chars]
```

Explanation The system is running out of output queues to support the specified policy-map.

Recommended Action Reduce the number of the traffic classes in attached output policy-map(s).

```
%QOSMGR-4-QUEUE_EXCEEDING_HW (DUPLICATE) : Number of queues has exceeded the hard-
ware limitation for VOQs
```

Explanation The system is running out of output queues to support the specified policy-map.

Recommended Action Remove the EFPs from the interfaces

```
%QOSMGR-4-STATISTICS_FAIL : Internal Error in reading statistics
```

Explanation Can not access to HW to read statistics successfully.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%QOSMGR-4-STATISTICS_FAIL (DUPLICATE) : Internal Error in reading statistics
```

Explanation Can not access to HW to read statistics successfully.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%QOSMGR-4-VOQ_CONNECTOR_EXCEEDING_HW : Number of VOQ connectors has exceeded the
hardware limitation for [chars] in asic id : [dec]
```

Explanation The system is running out of output queues to support the specified policy-map.

Recommended Action Remove the EFPs from the interfaces

R

RMGR

```
%RMGR-3-OUT_OF_TCAM_IPV4_ROUTE : Out of tcam resources to execute command
```

Explanation Number of IPv4 routes installed exceeded supported scale

R

Recommended Action Please reduce the number of IPv4 routes configured to supported scale. Clear the table to successfully reinstall all entries

```
%RMGR-3-OUT_OF_TCAM_IPV6_ROUTE : Out of tcam resources to execute command
```

Explanation Number of IPv6 routes installed exceeded supported scale

Recommended Action Please reduce the number of IPv6 routes configured to supported scale. Clear the table to successfully reinstall all entries

RP_MLP

```
%RP_MLP-3-CFG_FAILED : Config send to IM failed reason([dec])
```

Explanation Configuration send to IM failed

Recommended Action None

```
%RP_MLP-3-INCOMPATIBLELINK : The current config cannot be supported as link([chars])
[chars] for bundle ([chars])
```

Explanation When using multilink 1) All the links should be from the same port. 2) Non-channelized T3 interfaces are not supported on multilink 3) Link added should be compatible with the existing links in the bundle Refer to product documentaion for restrictions

Recommended Action Please modify the config as not to violate the restrictions

```
%RP_MLP-3-UNSUPPORTEDCONFIG : The current config cannot be supported as [chars] for
[chars]
```

Explanation When using multilink 1) The maximum number of links in the bundle and number of bundles should not exceed max permissible by device 2) Link added should be compatible with the existing links in the bundle Refer to product documentaion for restrictions

Recommended Action Please modify the config as not to violate the restrictions

```
%RP_MLP-4-BADLINKDECONFIG : Bad way of removing member link, now perform 'no shut'
on both sides of Multilink
```

Explanation If member link has to be removed from multilink bundle, first remove the multilink configuration from the member link and then perform no channel-group command on the controller.

Recommended Action If the member link is removed from the multilink bundle using no channel-group command, perform no shut on both sides of the multilink interface to make it work.

```
%RP_MLP-5-LINKTYPE mismatch : Link([chars]) cannot be added to Bundle([chars])
```

Explanation Link speed mismatch with other member links of the bundle.

S

Recommended Action None

```
%RP_MLP-5-SLOTMISMATCH : Link([chars]) cannot be added to Bundle([chars]) as [chars]
```

Explanation Link should be on same slot as other member links of Bundle.

Recommended Action None

```
%RP_MLP-5-SPAWARNING : could not add link for bundle [chars] as [chars]
```

Explanation A link was added to the bundle, but it is not on the same bay as other member links of the bundle.

Recommended Action Ensure that, when a link is added to a bundle, that it is on the same bay as the other member links of the bundle, in order to have the MLP

```
%RP_MLP-6-BAYMISMATCH : Bay number in message ([dec]) received ([chars]) greater than max number [dec]
```

Explanation Bay number in the message received exceeded max number of bays

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

S

SBC_MPS

```
%SBC_MPS-3-ENQUEFAIL : Enqueue of TDL message failed ([chars]).
```

Explanation An unexpected condition has occurred which resulted in configuration or event details not being forwarded.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SBC_MPS-3-INITFAIL : SBC module initialisation failure: [chars].
```

Explanation An unexpected condition has occurred which resulted in the module being unable to initialise.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%SBC_MPS-3-INTERNAL : An internal IOSd SBC error has been encountered[chars].
```

Explanation An internal error has been encountered.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SBC_MPS-3-MAX_RESOURCES : The maximum resource limit has been reached.
```

Explanation The system was asked to allocate more resources, but the maximum resource limit had already been reached

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SBC_MPS-3-UNEXPECTED_TIMEOUT : An unexpected timeout has been encountered by SBC ([chars]).
```

Explanation A timeout was experienced by the IOSd SBC subsystem, but no such timeout should have occurred. The system will ignore the timeout and continue operating.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SBC_MPS-4-MPF_CAPABILITIES : SBC MPF Capabilities handling failure.
```

Explanation SBC has been unable to properly prepare a Media Packet Forwarding capabilities message. SBC may not be able to support select functionality such as transcoding or SRTP.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SBC_MPS-4-MPF_SRTP_CAPABILITIES : Unable to set SRTP capabilities
```

Explanation SBC made an attempt to set the platform capabilities with respect to its handling of SRTP streams and was not successful. SRTP streams will not be handled through the SBC.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SBC_MPS-4-NEW_MPF_CAPABILITIES : New SBC MPF Capabilities handling failure.
```

Explanation SBC has received a new set of Media Packet Forwarding capabilities from the associated Forwarding Processor that are inconsistent with those already in use. SBC was unable to process these new capabilities online, and will automatically restart.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SBC_MPS-4-TRANSCODE_MPF_CAPABILITIES : Transcoding SBC MPF Capabilities handling failure.
```

Explanation SBC has been unable to prepare a transcoding supported Media Packet Forwarding capabilities message. SBC will not be able to support transcoding functionality.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SBC_MPS-4-UNEXPECTED_PKT : An unexpected packet for call [dec] has been received by SBC.
```

Explanation A packet been received by SBC for the noted call, but the call was not in a correct state to handle it. The system will ignore the packet and continue operating.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SBC_MPS-6-DEACTIVATE_NO_RSP : SBC deactivate response is considered lost.
```

Explanation The response for SBC deactivate can get lost due to FP startup or switchover while deactivation is in progress.

Recommended Action SBC can be activated now if needed.

```
%SBC_MPS-6-DEACTIVATE_RESPONSE : SBC deactivate is complete.
```

Explanation SBC deactivation can take a while. This happens when SBC deactivation is done in the presence of a lot of calls with deactivation-mode set to abort. SBC deactivate is now complete.

Recommended Action SBC can be safely activated now if needed.

```
%SBC_MPS-6-UNEXPECTED_TDL : An unexpected message ([chars]) has been received by SBC while in the [chars] state.
```

Explanation An internal message has been received by SBC, but it was not expecting that message at that particular time. The system will ignore the message and continue operation.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

SBC_SPF

```
%SBC_SPF-3-ENQUEFAIL : Enqueue of TDL message failed ([chars]).
```

Explanation An unexpected condition has occurred which resulted in configuration or event details not being forwarded.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SBC_SPF-3-INTERNAL : An internal IOSd SBC error has been encountered[chars].
```

Explanation An internal error has been encountered.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SBC_SPF-3-NOT_FOUND : An unsolicited message has been received by SBC ([chars] [int])
```

Explanation An internal message has been received by SBC, but it was not expecting that message at that particular time. The system will ignore the message and continue operation.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

SERIAL_IM

```
%SERIAL_IM-3-ANALYZE_FAILURE : Failed to analyze object for slot [int]/[int],  
spa_type [int]. [chars].
```

Explanation Failed to analyze an Interface Module object.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SERIAL_IM-3-CREATION_FAILURE : Failed to create object for slot [int]/[int],  
spa_type [int].
```

Explanation Failed to create an Interface Module object.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SERIAL_IM-3-PLUGIN_INIT : Plugin init failed for slot [int]/[int]. Action: [chars].
```

Explanation Plugin init failed UEA

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SERIAL_IM-3-PLUGIN_START : Plugin start failed for slot [int]/[int]. Action:  
[chars]
```

Explanation Pointer to a UEA object is NULL.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

SERVICES

```
%SERVICES-0-INVALID_OWNERSHIP : Error using service handle [IPv6 address] -invalid ownership ([IPv6 address], [IPv6 address])
```

Explanation 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.

Recommended Action Copy the error message, tracebacks and version information and contact a Cisco representative.

```
%SERVICES-2-NOINIT : Error initializing services: [chars]
```

Explanation An application failed to initialize the core services library. The application will not be able to communicate with other modules on the system.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SERVICES-2-NORESOLVE_ACTIVE : Error resolving active FRU: [chars]
```

Explanation An application was not able to determine the active FRU. The application was likely started incorrectly.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SERVICES-2-NORESOLVE_LOCAL : Error resolving local FRU: [chars]
```

Explanation An application was not able to determine its local FRU. The application was likely started incorrectly.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SERVICES-2-NORESOLVE_STANDBY : Error resolving standby FRU: [chars]
```

Explanation An application was not able to determine the standby FRU. The application was likely started incorrectly.

S

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SERVICES-3-INVALID_CHASFS : Thread [IPV6 address] has no global chasfs context
```

Explanation 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.

Recommended Action Copy the error message, tracebacks and version information and contact a Cisco representative.

SMAN

```
%SMAN-2-NO_MEMORY : Cannot allocate memory for an internal data structure
```

Explanation 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.

Recommended Action Check the log files for the associated daemon. Monitor processes for excessive memory consumption.

```
%SMAN-2-TDL_MESSAGE : Cannot construct an IPC message for library. The message name is [chars] and the reason is: [chars]
```

Explanation 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.

Recommended Action Check [uipeer] ERR entries in the log files for message reporting problems.

```
%SMAN-3-HOSTINFO_MONITOR_FAILURE : Error initializing host info monitoring: [chars]
```

Explanation During initialization, the Shell Manager monitors changes to host-related information, such as the hostname. This error occurs if initialization fails.

Recommended Action Check the Shell Manager trace file for related details.

```
%SMAN-3-HOSTINFO_READ_FAILURE : Error reading host info ([chars]): [chars]
```

Explanation 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.

Recommended Action Check the Shell Manager trace file for related details.

```
%SMAN-3-INVALID_EPOCH_FILE : An upgrade or installation has produced an invalid messaging configuration file [chars], [chars]
```

Explanation 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.

Recommended Action Repeat the installation or upgrade. If the problem persists, revert to a previous known good package.

```
%SMAN-3-NO_CD_L_FILE : Could not access command definition file [chars]: [chars]
```

Explanation During initialization, the Shell Manager loads a XML CDL file to load all the CLI structure. This file is for some reason not found.

Recommended Action Check the Shell Manager trace file for related details.

```
%SMAN-3-PTL_RENDERER_FAILURE : Rendering error with [chars].[chars]. Transform is missing or invalid for data.
```

Explanation 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 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.

Recommended Action 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.

SMANRP

```
%SMANRP-3-BADREPLYJOBID : Incorrect command reply job id [int] (origin [chars]), expecting [int]
```

Explanation A command reply message from the Shell Manager referenced the wrong originating job id

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-CMDBUILD : Interactive command directive [dec] of [dec] failed
```

Explanation In processing a CLI command, one of the instructions returned through the Shell Manager could not be turned into an interactive command for remote execution.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-CMDCONNECT : Connection to local interactive relay failed: [chars]
```

Explanation Connecting to the local relay for an interactive command failed due to the reason indicated in the error message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-CMDSEND : Send interactive command to relay failed: [chars]
```

Explanation Sending the interactive command string to the local relay after the connection was established failed by the reason indicated in the error message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-CMDTOOLONG : Interactive command too long
```

Explanation Instructions for command execution would result in creation of a command string that is beyond the maximum size.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-INVALIDCONNHANDLE : Invalid connection handle [int] referenced during command execution.
```

Explanation The execution of a CLI command, which must communicate with Shell Manager for command execution, has referenced a connection handle that is invalid. The CLI command execution will have failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-MSGBIPCBUFFER : Unable to acquire a BIPC buffer for sending messages.
```

Explanation A message was to be sent by IOS, but no BIPC buffer was available. The message to be sent has been discarded and the associated operation failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-MSGBIPCONNERR : Unable to register with the BIPC subsystem for connections to Shell Manager
```

Explanation IOS Shell Manager client code could not register with the BIPC communications infrastructure in order to establish a connection with the Shell Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-MSGBIPCERR : Unable to process received BIPC messages from Shell Manager, error: [chars]
```

Explanation An unexpected condition has occurred while IOS trying to process a received BIPC message from Shell Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-MSGBUILDERROR : Error [dec] building TDL message '[chars]' to send to the Shell Manager: [chars]
```

Explanation An unexpected condition has occurred while IOS is building a TDL message to send to the Shell Manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-MSGDISPATCH : Unable to dispatch received TDL message '[chars]' from Shell Manager. LUID: [chars]
```

Explanation An unexpected condition has occurred while IOS is trying to dispatch to the TDL message handler functions for received TDL messages from Shell Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance

Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-MSGDISPATCHNULL : Received NULL TDL message
```

Explanation An unexpected condition in which IOS has received a NULL TDL message from Shell Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-MSGENQUEUEERROR : Error queueing TDL message '[chars]' to send to the Shell Manager
```

Explanation An unexpected condition has occurred when IOS attempted to queue a TDL message to send to the Shell Manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-MSGERROR : Error [dec] handling a received TDL message '[chars]' from the Shell Manager: [chars]
```

Explanation An unexpected condition has occurred while IOS is processing a TDL message received from the Shell Manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-MSGINVALIDFIELDINT : Invalid field '[chars]' in TDL message '[chars]' received: value '[int]' from the Shell Manager
```

Explanation A message with an invalid field value was received from the Shell Manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-MSGINVALIDFIELDSTR : Invalid field '[chars]' value '[chars]' in TDL message '[chars]' received from the Shell Manager
```

Explanation A message with an invalid field value was received from the Shell Manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-MSGMARSHALERROR : Error '[dec]' marshaling TDL message '[chars]' to send to the Shell Manager
```

Explanation An unexpected condition has occurred while IOS is marshaling TDL message to send to the Shell Manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-MSGMISSINGFIELD : Missing field '[chars]' in TDL message '[chars]' received from the Shell Manager
```

Explanation A message missing a required field was received from the Shell Manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

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

Explanation This error happens when the Shell Manager shim failed to set the access control function for the LIIN, possibly due to IOS out of memory or corruption. Interactive commands will not work.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-SMAN_HANDLER_QUEUE_NOTEMPTY : Dynamic command handler exited foreground process with non-empty queue
```

Explanation The dynamic command handler which dispatches commands to the shell manager, has exited without proper cleanup.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance

S

Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-SMAN_INIT_CONN_FAIL : Shell Manager client connection pool initialization failed: Unable to request creation of [int] of [int] connections.
```

Explanation The Shell Manager client has failed to create all of its connections to Shell Manager. Ability to execute some CLI commands will be severely restricted or non-existent.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-SMAN_INIT_DC_TDL_FAIL : Shell Manager client initialization failed: Unable to initialize messaging: [chars]
```

Explanation The Shell Manager client has failed to initialize the infrastructure for messaging with the Shell Manager. Ability to execute some CLI commands will be severely restricted or non-existent.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-3-SMAN_INIT_WQ_FAIL : Shell Manager client connection handler initialization failed: Unable to create [int] of [int] receiving queues.
```

Explanation The Shell Manager client has failed to create all of its receiving queues. Ability to execute some CLI commands will be severely restricted or non-existent.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SMANRP-6-SMSTATUS : Shell Manager is [chars]
```

Explanation The current status of Shell Manager.

Recommended Action No action is required.

SPA

```
%SPA-0-TEMP_SHUTDOWN : [chars] temperature too high on sensor [int] ([dec]C). SPA has been shut down.
```

Explanation MSG_SPA_TEMP_HIGH_EXP The SPA has been shut down.

Recommended Action Verify that there are not any airflow restrictions. Verify that blank filler plates are installed in all empty slots. Clean and check air filters, if present. It may be necessary to lower the ambient temperature.

```
%SPA-0-TEMP_SHUTDOWN_OVR : [chars] temperature too high on sensor [int] ([dec]C) but shutdown has been overridden.
```

Explanation MSG_SPA_TEMP_HIGH_EXP SPA shutdown has been overridden by configuration

Recommended Action Verify that there are not any airflow restrictions. Verify that blank filler plates are installed in all empty slots. Clean and check air filters, if present. It may be necessary to lower the ambient temperature.

```
%SPA-0-VOLT_SHUTDOWN : [chars] voltage out of operating range. Nominal ([dec]mV), value ([dec]mV). The SPA has been shut down.
```

Explanation MSG_SPA_VOLT_EXP_COMMON The SPA has been shut down to prevent component damage.

Recommended Action Replace the SPA immediately. Record the associated messages and return the SPA for service.

```
%SPA-1-AUTHENTICATION_FAIL : IM authentication failed for slot/bay [dec]/[dec]
```

Explanation This Module 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 more information.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SPA-1-DB_AUTHENTICATION_FAIL : Module daughter board authentication failed for slot/bay/board [dec]/[dec]/[dec]
```

Explanation This daughter board 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 more information.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SPA-2-CEMFPGA_MBE_MEMORY_FAIL : CEMFPGA Multi Bit Error in RAM memory for slot/bay [dec]/[dec] Fatal failure. Reloading the IM
```

Explanation Soft errors are unintended changes to the values stored in SRAM's configuration memory of FPGA caused by ionizing radiation. Please refer to "Soft Error Mitigation Controller" product guide, PG036 for more information. Please contact Cisco's Technical Assistance Center for more information.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SPA-2-IOFPGA_MBE_MEMORY_FAIL : IOFPGA Multi Bit Error in RAM memory for slot/bay
[dec]/[dec] Fatal failure. Reloading the IM
```

Explanation Soft errors are unintended changes to the values stored in SRAM's configuration memory of FPGA caused by ionizing radiation. Please refer to "Soft Error Mitigation Controller" product guide, PG036 for more information. Please contact Cisco's Technical Assistance Center for more information.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SPA-2-TEMP_CRITICAL : [chars] temperature too high on sensor [int] ([dec]C).
```

Explanation MSG_SPA_TEMP_HIGH_EXP Please correct immediately.

Recommended Action Verify that there are not any airflow restrictions. Verify that blank filler plates are installed in all empty slots. Clean and check air filters, if present. It may be necessary to lower the ambient temperature.

```
%SPA-2-VOLT_CRITICAL : [chars] voltage outside of nominal range. Nominal ([dec]mV),
value([dec]mV)
```

Explanation MSG_SPA_VOLT_EXP_COMMON

Recommended Action MSG_SPA_VOLT_ACTION_SCHED_REPLACE

```
%SPA-2-VOLT_SHUTDOWN_OVR : [chars] voltage outside of operating range. Nominal
([dec]mV), value([dec]mV). SPA shutdown has been overridden by configuration.
```

Explanation MSG_SPA_VOLT_EXP_COMMON

Recommended Action Replace the SPA during a maintenance window.

```
%SPA-3-BAD_FCITYPE : [chars]: Illegal FCI type [dec].
```

Explanation An invalid FCI type is passed to SPA. This is a software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool:

<https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SPA-3-ENTITY_INITFAIL : SPA entity initialization error
```

Explanation A failure occurred during the SPA entity management subsystem startup. Entity management is not enabled.

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

```
%SPA-3-ENVMON_INITFAIL : SPA environmental monitoring initialization error
```

Explanation A failure occurred during the SPA environmental monitoring subsystem startup. Environmental monitoring is not enabled.

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

```
%SPA-3-ENVMON_NOT_MONITORED : Environmental monitoring is not enabled for [chars]
```

Explanation The indicated SPA has not registered any sensors with the environmental monitoring system.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **show tech-support** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SPA-3-INITFAIL : Initialization error
```

Explanation A failure occurred during the initialization.

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

```
%SPA-3-MSG_PARSE_FAILURE : Failed to parse incoming message from [chars]
```

Explanation An incoming control message from an IO module failed to get parsed, and as a result failed to get handled by the control process running on the host platform. This error message could occur when the software running on the module is incompatible with the host. A solution is to update the module software with a version that is the same (or compatible) with the host image.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start> , or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SPA-3-SW_ERROR : NULL
```

Explanation This error is seen when there is a problem in internal software coding; it should not be seen under normal operation.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SPA-4-POWER_WARNING : [chars] power consumption [dec] Watts is higher than typical
max value of [dec] Watts.
```

Explanation SPA power consumption is higher than the typical max value. Component reliability and data integrity may be compromised.

Recommended Action Check for the total power available for the system. If there is sufficient power available, this condition may not have any adverse effects.

```
%SPA-4-TEMP_SHUTDOWN_NONFATAL : [chars] temperature too high on sensor [int]
([dec]C). SPA has been shut down.
```

Explanation MSG_SPA_TEMP_HIGH_EXP The SPA has been shut down.

Recommended Action Verify that there are not any airflow restrictions. Verify that blank filler plates are installed in all empty slots. Clean and check air filters, if present. It may be necessary to lower the ambient temperature.

```
%SPA-4-TEMP_WARNING : [chars] temperature too high on sensor [int] ([dec]C).
```

Explanation MSG_SPA_TEMP_HIGH_EXP

Recommended Action Verify that there are not any airflow restrictions. Verify that blank filler plates are installed in all empty slots. Clean and check air filters, if present. It may be necessary to lower the ambient temperature.

```
%SPA-4-TEMP_WARNLOW : [chars] temperature too low on sensor [int] ([dec]C).
```

Explanation SPA temperature too low. Component reliability and data integrity may be compromised.

Recommended Action Raise the ambient temperature if it is too low. If there is no issue with the ambient temperature, then the SPA temperature sensor has likely failed. If there are no data errors, this warning can be ignored.

```
%SPA-4-VOLT_SHUTDOWN_NONFATAL : [chars] voltage out of operating range. Nominal
([dec]mV), value ([dec]mV). The SPA has been shut down.
```

Explanation MSG_SPA_VOLT_EXP_COMMON The SPA has been shut down to prevent component damage.

Recommended Action Replace the SPA immediately. Record the associated messages and return the SPA for service.

```
%SPA-5-CEMFPGA_SBE_MEMORY_FAIL : CEMFPGA Single Bit Error in RAM memory for slot/bay
[dec]/[dec] Auto Recovering the failure.
```

Explanation Soft errors are unintended changes to the values stored in SRAM's configuration memory of FPGA caused by ionizing radiation. Please refer to "Soft Error Mitigation Controller" product guide, PG036 for more information. Please contact Cisco's Technical Assistance Center for more information.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SPA-5-IOFPGA_SBE_MEMORY_FAIL : IOFPGA Single Bit Error in RAM memory for slot/bay
[dec]/[dec] Auto Recovering the failure.
```

Explanation Soft errors are unintended changes to the values stored in SRAM's configuration memory of FPGA caused by ionizing radiation. Please refer to "Soft Error Mitigation Controller" product guide, PG036 for more information. Please contact Cisco's Technical Assistance Center for more information.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

SPA_EEPROM

```
%SPA_EEPROM-3-FIELD_NOT_FOUND : [chars]: Failed to find content of field type [hex]
with data size = [dec] bytes. The EEPROM might require an update.
```

Explanation System failed to find the content of the indicated field type from the SPA EEPROM. The format of the EEPROM of the indicated SPA might not be up to date.

Recommended Action Retry the operation. If the problem persists, search Bug Toolkit on the Cisco web-site. If you do not find an existing bug, then gather the **output of <CmdBold>show idprom module<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg> <CmdBold>dump<NoCmdBold>** command or **<CmdBold>show diag subslot<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg>** command depending on the support of the platform and contact your technical support representative with the gathered information.

```
%SPA_EEPROM-3-FORMAT_ERROR : [chars]: [chars]. The EEPROM might require an update.
```

Explanation A format error has been detected in the EEPROM of the indicated SPA. The type of error is indicated in the error message.

Recommended Action Retry the operation. If the problem persists, search Bug Toolkit on the Cisco web-site. If you do not find an existing bug, then gather the **output of <CmdBold>show idprom module<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg> <CmdBold>dump<NoCmdBold>** command or **<CmdBold>show diag subslot<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg>** command depending on the support of the platform and

contact your technical support representative with the gathered information.

```
%SPA_EEPROM-3-READ_FAILED : Failed to read the EEPROM content of [chars] in [chars]
(offset=[hex], num_byte=[int])
```

Explanation System failed to read the EEPROM content of the indicated SPA with the specified offset value and number of bytes to read.

Recommended Action Retry the operation. If the problem persist, search Bug Toolkit on the Cisco web-site. If you do not find an existing bug, then gather the **output of <CmdBold>show idprom module<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg> <CmdBold>dump<NoCmdBold>** command or **<CmdBold>show diag subslot<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg>** command depending on the support of the platform and contact your technical support representative with the gathered information.

```
%SPA_EEPROM-3-RPC_FAILED : Failed to send RPC message to [chars] EEPROM of [chars]
in [chars] -[chars]
```

Explanation System failed to send a RPC message to read/write the EEPROM of the indicated SPA. The cause of the error condition is shown in the error message.

Recommended Action Retry the operation. If the problem persist, search Bug Toolkit on the Cisco web-site. If you do not find an existing bug, then gather the **output of <CmdBold>show tech-support<NoCmdBold>** command and contact your technical support representative with the gathered information.

```
%SPA_EEPROM-3-SET_WR_PROTECT_FAILED : [chars]: Failed to [chars] the EEPROM write
protect mode on [chars].
```

Explanation System failed to enable/disable the write protect mode for SPA EEPROM on the indicated device. This might happen if the device were busy performing other tasks.

Recommended Action Retry the operation. If the problem persist, search Bug Toolkit on the Cisco web-site. If you do not find an existing bug, then gather the **output of <CmdBold>show idprom module<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg> <CmdBold>dump<NoCmdBold>** command or **<CmdBold>show diag subslot<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg>** command depending on the support of the platform and contact your technical support representative with the gathered information.

```
%SPA_EEPROM-3-SW_ERROR : NULL
```

Explanation This error is seen when there is a problem in internal software coding; it should not be seen under normal operation.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SPA_EEPROM-3-WRITE_FAILED : Failed to write the EEPROM content for [chars] in
[chars] (offset=[hex], num_byte=[int])
```

Explanation System failed to write data into the EEPROM of the indicated SPA with the specified offset value and number of bytes to write.

Recommended Action Retry the operation. If the problem persists, search Bug Toolkit on the Cisco web-site. If you do not find an existing bug, then gather the **output of <CmdBold>show idprom module<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg> <CmdBold>dump<NoCmdBold>** command or **<CmdBold>show diag subslot<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg>** command depending on the support of the platform and contact your technical support representative with the gathered information.

```
%SPA_EEPROM-4-CANNOT_UPDATE : [chars]: EEPROM data cannot be updated at this moment because the SPA is not in service.
```

Explanation The EEPROM update operation cannot be performed because the indicated SPA could have been in out of service state, admin down state or is trying to get initialized.

Recommended Action Retry the operation when the SPA is in service. The operational status of the SPA can be checked with the **<CmdBold>show hw-module subslot <NoCmdBold> <CmdArg>slot/subslot<NoCmdArg> <CmdBold>oir<NoCmdBold>** command. If the SPA is shown in out of service state, correct the indicated problem before the retry to update EEPROM. If the state shown is in admin down, re-enable the SPA with **<CmdBold>no hw-module subslot<NoCmdBold> <CmdArg>slot/subslot<NoCmdArg> <CmdBold>shutdown <NoCmdBold>** command.

```
%SPA_EEPROM-4-DATA_TRUNCATED : [chars]: Data will be truncated for field type [hex] -size ([int] bytes) too big for this field type ([int] bytes)
```

Explanation The provided data to be written into the indicated field type of SPA EEPROM is too big and the data will be truncated in order to fit into the allowed space.

Recommended Action Retry the operation again with a data size that will fit into the indicated size for the field type.

SPA_FPD

```
%SPA_FPD-2-PWR_NO_OK : SPA POWER OK signal is not asserted for [chars] in [chars] for FPD upgrade.
```

Explanation The check for SPA POWER OK signal assertion failed. This might indicate a HW problem with the SPA.

Recommended Action Contact your Cisco technical support representative to have the SPA replaced.

```
%SPA_FPD-3-ADM106X_EEPROM_READ_ERROR : [chars]: Failed to read the content of ADM106x [chars] EEPROM section -[chars]
```

Explanation The read operation to ADM106x is performed through C2W serial interface from SPA carrier card, the indicated failure might be caused by busy C2W serial interface.

Recommended Action Retry the same operation again later. If the problem persists, remove the configuration of the SPA before trying again the operation.


```
%SPA_FPD-3-ADM106X_EEPROM_VERIFY_ERROR : [chars]: Verification of write operation failed in ADM106x [chars] EEPROM section for address [hex] -read value '[hex]', expected value '[hex]'.
```

Explanation The verification of the write operation has found a mismatch on the EEPROM data. The problem might be an indication of aging effect on the device that cannot longer hold written data.

Recommended Action Retry the upgrade operation again later. If the problem persists, replace the SPA.

```
%SPA_FPD-3-ADM106X_EEPROM_WRITE_ERROR : [chars]: Failed to write new configuration into ADM106x [chars] EEPROM section -[chars]
```

Explanation The write operation to ADM106x is performed through C2W serial interface from SPA carrier card, the indicated failure might be caused by busy C2W serial interface.

Recommended Action Retry the upgrade operation again later. If the problem persists, remove the configuration of the SPA before trying again the upgrade operation.

```
%SPA_FPD-3-ADM106X_READ_VER_ERROR : [chars]: Failed to read version info from ADM106x device -[chars]
```

Explanation The read operation to ADM106x is performed through C2W serial interface from SPA carrier card, the indicated failure might be caused by busy C2W serial interface.

Recommended Action Try to reload the SPA with **<CmdBold>hw-module subslot<NoCmdBold> <CmdArg>slot#/subslot#<NoCmdArg> <CmdBold>reload<NoCmdBold>** command to correct the failure. If problem persists, move the SPA to another bay of the carrier card.

```
%SPA_FPD-3-GETVER_FAILED : [chars]: Failed to get FPD version for [chars] (ID=[dec]): [chars].
```

Explanation Failed to get FPD version due to either IPC problem or operation error. The card will be disabled.

Recommended Action Check SPA seating and SPA status. Ensure compatibility among FPD, IOS and possible SPA firmware by comparing output of command **<CmdBold>show hw-module subslot fpd<NoCmdBold>** with IOS Release Notes. Obtain IOS version by command **<CmdBold>show version<NoCmdBold>**.

```
%SPA_FPD-3-IHEX_PARSE_ERROR : NULL
```

Explanation This error is seen when there is a problem in the format of the Intel HEX data; it should not be seen under normal operation.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SPA_FPD-3-JTAG_ERR : [chars]: Failed to program a [chars] FPD image file. Error code [hex].
```

Explanation While attempting to program a SPA FPGA via JTAG bus, an error occurs. It could be caused by an outdated carrier card FPGA or SPA connection. It may also flag an internal software error.

Recommended Action Retry the upgrade after reseating SPA. Verify carrier card FPGA is current. Copy exact the error message and report to TAC.

```
%SPA_FPD-3-PWR_OFF_FAILED : Failed to power-off [chars] in [chars] for FPD offline upgrade within [dec] seconds.
```

Explanation The power-off operation of the indicated SPA failed within the number of specified seconds. This might indicate that the time used to wait for SPA to power-off is not long enough, which can happen if the SPA has a lot of interfaces configured.

Recommended Action Retry the upgrade operation again later. If the problem persists, remove the configuration of the SPA before trying again the upgrade operation.

```
%SPA_FPD-3-SMM665_CONF_WRITE_ERROR : [chars]: Failed to write new configuration into SMM665 device.
```

Explanation The write operation to SMM665 is performed through C2W serial interface from SPA carrier card, the indicated failure might be caused by busy C2W serial interface.

Recommended Action Retry the upgrade operation again later. If the problem persists, remove the configuration of the SPA before trying again the upgrade operation.

```
%SPA_FPD-3-SW_ERROR : NULL
```

Explanation This error is seen when there is a problem in internal software coding; it should not be seen under normal operation.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%SPA_FPD-3-UPGRADE_FAILED : [chars]: Failed to upgrade FPD, [chars].
```

Explanation The FPD image upgrade operation failed. This error is specific to the SPA. The cause could be a wrong image file, error in accessing fpga storage, physical interrupt such as power failure or card removal. Depending on SPA type and error cause, the card could be in an unusable status. Normally the system automatically reattempts the upgrade and shuts the card after repeated failures.

Recommended Action Do not interrupt the system while an FPD upgrade is in progress. Obtain the matching FPD package. Refer to IOS Release Notes for more information on obtaining the correct FPD package for the SPA. Review the output of the RP FPD logs.

```
%SPA_FPD-4-UPGRADE_ABORTED : [chars]: Upgrade aborted for [chars] (ID=[dec]) - [chars]
```

Explanation The upgrade operation for the FPD image was aborted because the provided image cannot be used by the driver to perform the image programming operation.

Recommended Action Make sure that the provide FPD image package for the FPD upgrade operation is a valid one for the Cisco IOS release in use. This can be verified with the **<CmdBold>show upgrade fpd package default<NoCmdBold>** command to display the required FPD image package version for the IOS image.

```
%SPA_FPD-6-IMG_CORRUPTION : [chars]: FPD image corruption detected for [chars]
(ID=[dec]), forcing upgrade of the corrupted image to correct this problem.
```

Explanation The software detected corruption on a FPD image and it is triggering the FPD automatic upgrade mechanism to correct the problem.

Recommended Action No Action is required.

SPA_OIR

```
%SPA_OIR-2-INITFAIL : SPA OIR initialization error
```

Explanation A failure occurred during the SPA OIR subsystem startup. SPA OIR is not functional for the RP or line card that generated the message.

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

```
%SPA_OIR-2-SUBSLOTINITFAIL : SPA OIR initialization error for [chars]
```

Explanation A failure occurred during the SPA OIR subsystem startup. SPA OIR is not functional for the slot or subslot specified in the error message

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

```
%SPA_OIR-3-CMD_ATTR : [chars]: Unexpected command identifier ([int])
```

Explanation An unexpected command identifier was detected when processing command related to a SPA OIR. The command was not processed. This is most likely due to a software problem.

Recommended Action Research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **<CmdBold>show logging<NoCmdBold>**, **<CmdBold>show monitor event-log spa all<NoCmdBold>** and **<CmdBold>show tech-support<NoCmdBold>** commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%SPA_OIR-3-CORRUPT_EVENT : [chars]
```

Explanation Corruption was detected within a SPA OIR event for the subslot specified in the error message. When this error occurs, the system attempts automatic recovery by reloading the SPA. This condition could be caused by a software, firmware or hardware problem, but a firmware or software problem is more likely. For distributed platforms, SPA OIR events are transported over different media depending on the platform (for example, c12000 uses the MBUS). An unlikely cause of this error is that an event message was corrupted during transport.

Recommended Action No immediate action is required on the system if the SPA is operational. Research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the `<CmdBold>show logging<NoCmdBold>`, `<CmdBold>show monitor event-log spa all<NoCmdBold>` and `<CmdBold>show tech-support<NoCmdBold>` commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%SPA_OIR-3-EVENT_DATA_ERROR : SPA OIR event data error -[chars]([int])
```

Explanation Invalid data was detected within a SPA OIR event. The SPA OIR state machines may not reflect the state of the hardware. The problem only affects one SPA, but the SPA cannot be determined from the context where the error was detected. This condition could be caused by software or hardware problem, but a software problem is more likely. For distributed platforms, SPA OIR messages are transported over different media depending on the platform (for example, c12000 uses the MBUS). An unlikely cause of this error is that an event message was corrupted during transport.

Recommended Action Check the system log for other messages that may help determine which SPA is affected.
SPA_OIR_EVENT_RECOVERY_ACTION

```
%SPA_OIR-3-EVENT_HANDLING : [chars]: [chars][hex]
```

Explanation A data structure error was detected when handling a SPA OIR event for the SPA in the slot or subslot specified in the error message. The SPA OIR state machines may not reflect the state of the hardware. This condition is most likely due to a software problem.

Recommended Action Research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the `<CmdBold>show logging<NoCmdBold>`, `<CmdBold>show monitor event-log spa all<NoCmdBold>` and `<CmdBold>show tech-support<NoCmdBold>` commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%SPA_OIR-3-EVENT_TIMEOUT : [chars]: Timeout waiting for SPA OIR event
```

Explanation A timeout occurred for the subslot specified in the error message while waiting for a SPA OIR event. The SPA did not complete initialization. When this error occurs, the system attempts automatic recovery by reloading the SPA. This condition could be caused by software or hardware problem, but a software problem is more likely. For distributed platforms, SPA OIR event are transported over different media depending on the platform (for example, c12000 uses the MBUS). An unlikely cause of this error is that an event message was corrupted during transport.

Recommended Action No immediate action is required on the system if the SPA is operational. Research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the `<CmdBold>show logging<NoCmdBold>`, `<CmdBold>show monitor event-log spa all<NoCmdBold>` and `<CmdBold>show tech-support<NoCmdBold>` commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%SPA_OIR-3-HW_INIT_TIMEOUT : [chars]
```

Explanation A timeout occurred for the subslot specified in the error message while waiting for SPA hardware to initialize. The SPA did not complete initialization. When this error occurs, the system attempts automatic recovery by reloading the SPA. This condition could be caused by a software, firmware or hardware problem, but a firmware or hardware problem is more likely.

Recommended Action No immediate action is required on the system if the SPA is operational. Research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the `<CmdBold>show logging<NoCmdBold>`, `<CmdBold>show monitor event-log spa all<NoCmdBold>` and `<CmdBold>show tech-support<NoCmdBold>` commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%SPA_OIR-3-HW_SIGNAL_DEASSERTED : [chars]
```

Explanation One or more hardware signals indicated that the SPA hardware in the subslot specified in the error message should be reinitialized. When this error occurs, the system attempts automatic recovery by reloading the SPA. This condition could be caused by a software, firmware or hardware problem, but a firmware or hardware problem is more likely. This condition could be caused by a rare interaction between SPA and its SIP.

Recommended Action No immediate action is required on the system if the SPA is operational. Research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the `<CmdBold>show logging<NoCmdBold>`, `<CmdBold>show monitor event-log spa all<NoCmdBold>` and `<CmdBold>show tech-support<NoCmdBold>` commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%SPA_OIR-3-MESSAGE_ERROR : [chars]: SPA OIR event message error -[chars]([int])
```

Explanation An error was detected in a SPA OIR event message for the SPA in the slot or subslot specified in the error message. The SPA OIR state machines may not reflect the state of the hardware for this SPA. This condition could be caused by software or hardware problem, but a software problem is more likely. For distributed platforms, SPA OIR messages are transported over different media depending on the platform (for example, c12000 uses the MBUS). An unlikely cause of this error is that an event message was corrupted during transport.

Recommended Action Enter the `<CmdBold>hw-module<NoCmdBold> <target spa> <CmdBold>reload<NoCmdBold>` command, with `<target spa>` being the slot or subslot of the **affected SPA**. **Entering this** command will perform a power cycle and synchronizes the affected SPA software with the hardware. Research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the `<CmdBold>show logging<NoCmdBold>`, `<CmdBold>show monitor event-log spa all<NoCmdBold>` and `<CmdBold>show tech-support<NoCmdBold>` commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%SPA_OIR-3-OUT_OF_SYNC : [chars]: failure code ([hex])
```

Explanation The software SPA OIR state did not match the hardware state for the subslot in the error message. When this error occurs, the system attempts automatic recovery by reloading the SPA. This condition is expected if a SPA is reloading when an RP switchover occurs. Otherwise, this condition could be caused by a software, firmware or hardware problem, but a firmware or software problem is more likely. This condition could also be caused by a rare interaction between SPA and its SIP.

Recommended Action No immediate action is required on the system if the SPA is operational. Research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the `<CmdBold>show logging<NoCmdBold>`, `<CmdBold>show monitor event-log spa all<NoCmdBold>` and `<CmdBold>show tech-support<NoCmdBold>` commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%SPA_OIR-3-POST_EVENT_ERROR : [chars]: event [int]
```

Explanation A SPA OIR event message was not enqueued for the SPA in the slot or subslot specified in the error message. The SPA OIR state machines may not reflect the state of the hardware for this SPA. This condition is most likely due to a software problem.

Recommended Action Enter the `<CmdBold>hw-module<NoCmdBold> <target spa> <CmdBold>reload<NoCmdBold>` command, with `<target spa>` being the slot or subslot of the **affected SPA**. **Entering this** command will perform a power cycle and synchronizes the affected SPA software with the hardware. Research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the `<CmdBold>show logging<NoCmdBold>`, `<CmdBold>show monitor event-log spa all<NoCmdBold>` and `<CmdBold>show tech-support<NoCmdBold>` commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%SPA_OIR-3-RECOVERY_RELOAD : [chars]: Attempting recovery by reloading SPA
```

Explanation The OIR facility attempted automatic recovery by reloading the SPA in the subslot specified in the error message. Look for other error messages related to this SPA subslot to determine the failure that triggered the automatic recovery.

Recommended Action No action is required.

```
%SPA_OIR-3-SPA_POWERED_OFF : [chars]: SPA [chars] powered off after [int] failures
within [int] seconds
```

Explanation The SPA was powered off because it failed too often. This condition may be caused by a software, firmware or hardware error.

Recommended Action Look for other error messages related to this SPA subslot to determine root cause of the failure. SPA_OIR_EVENT_RECOVERY_ACTION

```
%SPA_OIR-3-SW_INIT_TIMEOUT : [chars]: SPA initialization not completed
```

Explanation A timeout occurred for the subslot specified in the error message while waiting for SPA software driver to initialize the SPA. The SPA did not complete initialization. When this error occurs, the system attempts automatic recovery by reloading the SPA. This condition could be caused by software, firmware or hardware problem, but a software or firmware problem is more likely.

Recommended Action Check for other messages reported for further insight. Hardware replacement should not occur first occurrence. Before requesting hardware replacement, review troubleshooting logs with a Cisco technical support representative. SPA_OIR_AUTO_RECOVERY_ACTION

```
%SPA_OIR-3-UNEXPECTED_EVENT : [chars]: SPA OIR unexpected event([int])
```

Explanation An unexpected SPA OIR event was detected for the SPA in the slot or subslot specified in the error message. The SPA OIR state machines may not reflect the state of the hardware for this SPA. This condition could be caused by software or hardware problem, but a software problem is more likely. For distributed platforms, SPA OIR messages are transported over different media depending on the platform (for example, c12000 uses the MBUS). An unlikely cause of this error is that an event message was corrupted during transport.

Recommended Action Enter the `<CmdBold>hw-module<NoCmdBold> <target spa> <CmdBold>reload<NoCmdBold>` command, with `<target spa>` being the slot or subslot of the **affected SPA**. **Entering this** command will perform a power cycle and synchronizes the affected SPA software with the hardware. Research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the `<CmdBold>show logging<NoCmdBold>`, `<CmdBold>show monitor event-log spa all<NoCmdBold>` and `<CmdBold>show tech-support<NoCmdBold>` commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%SPA_OIR-3-UNEXPECTED_RECOVERY_ACTION : [chars]: SPA [chars], unexpected recovery
action([int]) for fail code [hex]
```

Explanation An error occurred while processing a failure message for the SPA in the slot or subslot number specified in the error message. The recovery action to be taken after a SPA failure is determined by calling a SPA driver function.

This message indicates that the SPA driver function returned an invalid recovery action. After this message was issued, the SPA was reloaded in an attempt to recover. The SPA driver most likely returned an invalid recovery action because of a software problem.

Recommended Action No immediate action is required on the system if the SPA is operational. Research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance or would like to report a suspected hardware failure, open a case with the Technical Assistance Center via the Internet at <http://tools.cisco.com/ServiceRequestTool/create/> or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the `<CmdBold>show logging<NoCmdBold>`, `<CmdBold>show monitor event-log spa all<NoCmdBold>` and `<CmdBold>show tech-support<NoCmdBold>` commands, your troubleshooting logs, and the specific error message in non-zipped, plain text format (.txt).

```
%SPA_OIR-3-UNRECOGNIZED : The SPA of type [hex] in [chars] is not recognized
```

Explanation The type of the SPA in the specified subslot is not recognized by the operating system. The operating system might not support this SPA type on this platform, or the SPA type identification stored on the SPA is invalid.

Recommended Action Ensure that the system is running a version of the operating system that supports the SPA type specified in the error message on this platform. If the correct operating system version is in use, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information. Include the information about the SPA type found on the front of the SPA.

```
%SPA_OIR-3-UNSUPPORTED : The [chars] in [chars] is not supported by the [chars] module
```

Explanation The SPA in the subslot specified in the error message is not supported in the specified SIP by the version of the operating system currently running on the system. The SPA type may be supported by another SIP or by a later operating system release.

Recommended Action Ensure that the SIP specified in the error message supports the specified SPA type. Ensure that the operating system release supports the SPA type in the SIP. It may be necessary to upgrade your system to the latest operating system release in your release train, or it may be necessary to use a different SIP type. If the SPA type specified in the error message does not match the interface types or numbers shown on the front of the SPA, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information. Include information regarding the SPA type found on the front of the SPA.

```
%SPA_OIR-6-INSCARD : Card inserted in [chars]
```

Explanation The OIR facility detected a newly inserted SPA. The interfaces associated with that SPA are operational, but will be shut down until they are configured by the user. If any interfaces of that type were previously configured, they will be restored to their previous state.

Recommended Action No action is required.

```
%SPA_OIR-6-OFFLINECARD : SPA ([chars]) offline in [chars]
```


S

Explanation The OIR facility detected the state change to offline for the SPA in the slot or subslot number specified in the message.

Recommended Action No action is required.

```
%SPA_OIR-6-ONLINECARD : SPA ([chars]) online in [chars]
```

Explanation The OIR facility detected the state change to online for the SPA in the slot or subslot number specified in the message.

Recommended Action No action is required.

```
%SPA_OIR-6-PRECONFIG_MISMATCH : [chars]: Inserted SPA type does not match preconfig-
ured SPA type. Configuration updated
```

Explanation This message reports a mismatch between the inserted SPA type and the preconfigured SPA type on platforms that support pre-configuration. The inserted SPA replaces the preconfigured SPA.

Recommended Action Check the configuration with the `<CmdBold>show run<NoCmdBold>` command. If you would like to revert to the preconfigured type, remove the SPA and then update the configuration from a backup

```
%SPA_OIR-6-REMCARD : Card removed from [chars], interfaces disabled
```

Explanation The OIR facility detected the removal of a SPA from the slot or subslot number specified in the error message. The interfaces on that SPA will be administratively shut down and marked as removed. The routing table will be flushed of any routes through the removed interfaces.

Recommended Action No action is required.

```
%SPA_OIR-6-SHUTDOWN : [chars] is administratively shutdown; Use 'no hw-module
[chars] shutdown' to enable
```

Explanation The SPA was not brought up because the SPA bay is in an admin down state. The SPA bay will appear as `<CmdBold>hw-module<NoCmdBold> <target spa> <CmdBold>shutdown<NoCmdBold>` in the running configuration.

Recommended Action Use the `<CmdBold>no hw-module<NoCmdBold> <target spa> <CmdBold>shutdown<NoCmdBold>` command to administratively enable the SPA bay.

SPA_OIR_STATE_CHANGE

```
%SPA_OIR_STATE_CHANGE-2-OOS_AUMA_MEA_MT : SPA N/A in subslot 0/[dec] state transi-
tioned to [chars].
```

Explanation The state transitioned to out of service autonomous management - mismatch and maintenance, because the entity has been manually removed from service for a maintenance activity. Also, the card may be inserted in the wrong slot.

Recommended Action No action is required.

```
%SPA_OIR_STATE_CHANGE-2-OOS_AUMA_UAS_MEA : SPA [chars] in subslot 0/[dec] state transitioned to [chars].
```

Explanation The state transitioned to out of service autonomous management - unassigned and mismatch; because the entity had been manually inserted into wrong bay and/or the card is not provisioned in the database.

Recommended Action No action is required.

```
%SPA_OIR_STATE_CHANGE-2-OOS_AU_MEA : SPA [chars] in subslot 0/[dec] state transitioned to [chars].
```

Explanation The state transitioned to out of service autonomous and mismatch. An improper equipment is provisioned or inserted in the bay.

Recommended Action No action is required.

```
%SPA_OIR_STATE_CHANGE-6-EMPTY : SPA [chars] in subslot 0/[dec] state transitioned to [chars].
```

Explanation The state is in empty since the subslot is neither provisioned, nor is it physically populated with any interface module.

Recommended Action No action is required.

```
%SPA_OIR_STATE_CHANGE-6-IS_NR : SPA [chars] in subslot 0/[dec] state transitioned to [chars].
```

Explanation The state transitioned to in-service and normal. It is fully operational and shall provide provisioned functions.

Recommended Action No action is required.

```
%SPA_OIR_STATE_CHANGE-6-OOS_AU_FLT : SPA [chars] in subslot 0/[dec] state transitioned to [chars].
```

Explanation The state transitioned to out of service autonomous - fault condition.

Recommended Action No action is required.

```
%SPA_OIR_STATE_CHANGE-6-OOS_AUMA_FLT_MT : SPA [chars] in subslot 0/[dec] state transitioned to [chars].
```

Explanation The state transitioned to out of service autonomous management - unequipped and unassigned, because the card is neither physically present nor provisioned in the database.

Recommended Action No action is required.

```
%SPA_OIR_STATE_CHANGE-6-OOS_AUMA_SWDL_MT : SPA [chars] in subslot 0/[dec] state transitioned to [chars].
```

S

Explanation The state transitioned to out of service autonomous - software download and maintenance. The entity had been manually removed from for a maintenance activity.

Recommended Action No action is required.

```
%SPA_OIR_STATE_CHANGE-6-OOS_AUMA_UAS : SPA [chars] in subslot 0/[dec] state transitioned to [chars].
```

Explanation The state transitioned to out of service autonomous management - unassigned, because the card is not provisioned in the database.

Recommended Action No action is required.

```
%SPA_OIR_STATE_CHANGE-6-OOS_AUMA_UEQ_MT : SPA [chars] in subslot 0/[dec] state transitioned to [chars].
```

Explanation The state transitioned to out of service autonomous - unequipped and maintenance. The card is not physically present. The entity has been manually removed from service for a maintenance activity.

Recommended Action No action is required.

```
%SPA_OIR_STATE_CHANGE-6-OOS_AU_SWDL : SPA [chars] in subslot 0/[dec] state transitioned to [chars].
```

Explanation The state transitioned to out of service autonomous and software download.

Recommended Action No action is required.

```
%SPA_OIR_STATE_CHANGE-6-OOS_AU_UEQ : SPA N/A in subslot 0/[dec] state transitioned to [chars].
```

Explanation The state transitioned to out of service autonomous because the card is not physically present.

Recommended Action No action is required.

```
%SPA_OIR_STATE_CHANGE-6-OOS_MA_MT : SPA [chars] in subslot 0/[dec] state transitioned to [chars].
```

Explanation The state transitioned to out of service management. The entity had been manually removed from service for a maintenance activity but still performs its provisioned functions.

Recommended Action No action is required.

SSFPD

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

Explanation An invalid message response was received. This could be due to a software defect or system resource exhaustion.

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

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

Explanation A peer table initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.

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

SSFPD_INFRA

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

Explanation The hardware failed to create a chassis filesystem object.

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

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

Explanation A chassis filesystem object expected to be present is not. This could be due to a software defect or filesystem failure.

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

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

Explanation A chassis filesystem object was not watched because of the reason stated in the error message.

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

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

Explanation A chassis filesystem property was not properly created.

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

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

Explanation A chassis filesystem property was not properly read by the system.

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

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

Explanation A chassis filesystem object property expected to be present is not. This could be due to a software defect or filesystem failure.

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

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

Explanation A chassis filesystem property failed to write.

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

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

Explanation An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.

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

support representative.

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

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

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

```
%SSFPD_INFRA-0-IPC_CONNECT_MASTER : IPC connection to the active RSP failed because [chars]
```

Explanation IPC connection to the active RSP failed. This could be due to a software defect or system resource exhaustion.

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

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

Explanation IPC initialization failed. This could be due to a software defect or system resource exhaustion.

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

```
%SSFPD_INFRA-0-MESSAGE_REGISTER : Failed to register with active RSP because [chars]
```

Explanation The active RSP failed to register.

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

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

Explanation Failed to relay a message. This could be due to a software defect or system resource exhaustion.

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

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

Explanation An invalid message response was received. This could be due to a software defect or system resource exhaustion.

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

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

Explanation The MQIPC initialization failed.

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

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

Explanation MQIPC initialization failed. This could be due to a software defect or system resource exhaustion.

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

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

Explanation A peer table initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.

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

```
%SSFDPD_INFRA-0-RESOURCE : Resource allocation failed in [chars] because [chars]
```

Explanation The system is unable to allocate the requested resource.

Recommended Action 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.

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

T

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

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

```
%SSFPD_INFRA-3-CHASFS_PROPERTY_DESTROY : Failed to destroy chassis filesystem property [chars]/[chars] because [chars]
```

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

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

T

TELNETD

```
%TELNETD-3-ISSUE_FILE_OPEN : Error opening login banner: [chars]
```

Explanation An error has occurred opening the login banner. It could not be displayed to a user connecting via telnet.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

TRANSCEIVER

```
%TRANSCEIVER-3-ATTACH_FAILURE : Detected for transceiver module in [chars], module disabled
```

Explanation A software device driver attach failed. This condition could be caused by software, firmware or hardware problem, but a software or firmware problem is more likely. As a result of the error, the module is disabled.

Recommended Action Try reseating the module. Hardware replacement should not occur first occurrence. Before requesting hardware replacement, review troubleshooting logs with a Cisco technical support representative.

```
%TRANSCEIVER-3-CHECKSUM_ERROR : Detected in the transceiver module in [chars], module disabled
```

Explanation A checksum error was detected when reading the ID PROM of a transceiver module for the interface specified in the error message. As a result of the error, the module is disabled.

T

Recommended Action Try reseating the module. If the problem persists, Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%TRANSCEIVER-3-DRLX_100M_UP : [chars] Dual rate transceiver may have come up wrongly with 100M speed
```

Explanation Dual rate transceiver which supports both 1G/100M may have wrongly detected 100M as the operational speed

Recommended Action Please try shut and no shut on the interface once

```
%TRANSCEIVER-3-INIT_FAILURE : Detected for transceiver module in [chars], module disabled
```

Explanation An initialization failure occurred for the transceiver module for the interface specified in the error message. This condition could be caused by software, firmware, or hardware problem. As a result of the error, the module is disabled.

Recommended Action Try reseating the module. Hardware replacement should not occur first occurrence. Before requesting hardware replacement, review troubleshooting logs with a Cisco technical support representative.

```
%TRANSCEIVER-3-NOT_COMPATIBLE : Detected for transceiver module in [chars], module disabled
```

Explanation The transceiver module for the interface specified in the error message is not compatible with the interface. As a result of the error, the module is disabled.

Recommended Action Replace the module with a compatible transceiver. If the problem persists, Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%TRANSCEIVER-3-NOT_IDENTIFIED : Detected for transceiver module in [chars], module disabled
```

Explanation The transceiver module for the interface specified in the error message could not be identified and may not be compatible with the interface. As a result of the error, the module is disabled.

Recommended Action Replace the module with a compatible transceiver. If the problem persists, Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%TRANSCEIVER-3-NOT_SUPPORTED : Detected for transceiver module in [chars], module disabled
```

Explanation The transceiver module for the interface specified in the error message is not a Cisco supported module. As a result of the error, the module is disabled.

Recommended Action Replace the module with a Cisco supported transceiver. If the problem persists, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%TRANSCEIVER-3-OPER_ENABLE_FAILURE : Detected for transceiver module in [chars], module disabled
```

Explanation Failed to enable the transceiver module for the interface specified in the error message. This condition could be caused by software, firmware, or hardware problem. As a result of the error, the module is disabled.

Recommended Action Try reseating the module. Hardware replacement should not occur first occurrence. Before requesting hardware replacement, review troubleshooting logs with a Cisco technical support representative.

```
%TRANSCEIVER-3-RPC_FAILED : Application error rc = [dec]:
```

Explanation The system failed to retrieve the information required to execute the command

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show version** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%TRANSCEIVER-3-RPC_INIT_FAIL : Transceiver RPC init failure
```

Explanation The system failed to create the resources required to process user interface commands for transceivers. The error is not fatal but some show commands could fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show version** command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%TRANSCEIVER-3-RPC_PROCESSING_ERROR : Transceiver RPC error: [chars]
```

Explanation Non-Fatal error occurred in processing an RPC message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Issue the **<CmdBold> show version**

command to gather data that may help identify the nature of the error. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%TRANSCEIVER-3-SM_CREATION_FAILURE : Transceiver OIR State Machine creation failed
for [chars], module disabled.
```

Explanation A state machine could not be created for the transceiver OIR operation. If a %SYS-2-MALLOCFAIL message was also received with this message, this condition indicates insufficient system memory. Other possible causes include invalid subblock pointer.

Recommended Action If it is insufficient system memory, Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration. If this message recurs, Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%TRANSCEIVER-3-UNSUPPORTED_XCVR : Transceiver type GLC-GE-100FX is not supported on
SPA-8xGE-V2
```

Explanation Transceiver type GLC-GE-100FX is not supported on SPA-8xGE-V2

Recommended Action Consult the documentation and ensure supported transceivers are plugged into the SPA

```
%TRANSCEIVER-3-UNSUPPORTED_XCVR_TYPE : Transceiver type [chars] is not supported on
[chars]
```

Explanation The transceiver module for the interface specified in the error message is not compatible with the interface.

Recommended Action Consult the documentation and ensure supported transceivers are plugged into the SPA

```
%TRANSCEIVER-6-INSERTED : transceiver module inserted in [chars]
```

Explanation The online insertion and removal (OIR) facility detected a newly inserted transceiver module for the interface specified in the error message.

Recommended Action No action is required.

```
%TRANSCEIVER-6-REMOVED : Transceiver module removed from [chars]
```

Explanation The online insertion and removal (OIR) facility detected the removal of a transceiver module from the interface specified in the error message.

Recommended Action No action is required.

U

U

UDEV

%UDEV-3-UDEVPERMS : An invalid permissions value, [chars], was found in a udev file

Explanation The udev files for a particular filesystem contain a description the file system. If the permissions attribute is not recognized then this file system may run with incorrect permissions.

Recommended Action No action is required.

UEA_MGR_URPF

%UEA_MGR_URPF-3-URPF_PREFIX_EXHAUSTED : uRPF IPv4 address TCAM lookup space exhausted. Maxium number of uRPF prefixes allowed on RSP3 platform is [dec]

Explanation A software error has occurred

Recommended Action The global IPv4 uRPF prefix TCAM lookup space (across all VRFs) has been exhausted. IPv4 forwarding & uRPF functionality will be degraded. Please revisit router configuration to limit the number of IPv4 prefixes in uRPF enabled VRFs

%UEA_MGR_URPF-3-URPF_VRF_OVERRIDE : Per-VRF uRPF overridden for vrf:[dec]. Allowed mode for this vrf is [chars]

Explanation A software error has occurred

Recommended Action uRPF mode is per-VRF, hence we can't have two different mode (strict and loose) at once in the same VRF. The new mode configured conflicts with the earlier mode and user will have to change it to allowed mode for uRPF to take effect on the interface.

UEA_RLDRAM

%UEA_RLDRAM-3-NILE_ACCESS_RD : A memory read called from [hex]:[hex]:[hex]:[hex]:[hex]

Explanation An attempt was made to read memory beyond the boundary limit. This error could be caused by software defect.

Recommended Action Examine the logs for RLDRAM read offset

%UEA_RLDRAM-3-NILE_ACCESS_WR : A memory read called from [hex]:[hex]:[hex]:[hex]:[hex]

Explanation An attempt was made to read memory beyond the boundary limit. This error could be caused by software defect.

U

Recommended Action Examine the logs for RLDRAM read offset

```
%UEA_RLDRAM-3-RLDRAM_READ : A memory read attempted beyond the boundary limit: offset = [hex]. Allowed offset = [hex]
```

Explanation An attempt was made to read memory beyond the boundary limit. This error could be caused by software defect.

Recommended Action Examine the logs for RLDRAM read offset

```
%UEA_RLDRAM-3-RLDRAM_WRITE : A memory write attempted beyond the boundary limit: offset = [hex]. Allowed offset = [hex]
```

Explanation An attempt was made to read memory beyond the boundary limit. This error could be caused by software defect.

Recommended Action Examine the logs for RLDRAM read offset

UEA_TCAM

```
%UEA_TCAM-3-TCAM_ACL_THRESHOLD : TCAM-above-threshold: TCAM usage more than [dec]%%threshold set for app [chars], ASIC id [dec]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_ACL_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than [dec]%%threshold set for app [chars], ASIC id [dec]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_EQOS_THRESHOLD : TCAM-above-threshold: TCAM usage more than [dec]%%threshold set for app [chars], ASIC id [dec]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_EQOS_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than [dec]%%threshold set for app [chars], ASIC id [dec]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

U

```
%UEA_TCAM-3-TCAM_EVLAN_THRESHOLD : TCAM-above-threshold: TCAM usage more than  
[dec]%%threshold set for app [chars], asic id [dec]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_EVLAN_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than  
[dec]%%threshold set for app [chars], asic id [dec]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_IPV4_TUNNEL_THRESHOLD : TCAM-above-threshold: TCAM usage more than  
[dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_IPV4_TUNNEL_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less  
than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_IPV6_ACL_THRESHOLD : TCAM-above-threshold: TCAM usage more than  
[dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_IPV6_ACL_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less  
than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_IVLAN_THRESHOLD : TCAM-above-threshold: TCAM usage more than  
[dec]%%threshold set for app [chars], asic id [dec]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

U

```
%UEA_TCAM-3-TCAM_IVLAN_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than
[dec]%%threshold set for app [chars], ASIC id [dec]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_MCASTV4_THRESHOLD : TCAM-above-threshold: TCAM usage more than
[dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_MCASTV4_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less
than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_MCASTV6_THRESHOLD : TCAM-above-threshold: TCAM usage more than
[dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_MCASTV6_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less
than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_QOS_THRESHOLD : TCAM-above-threshold: TCAM usage more than
[dec]%%threshold set for app [chars], ASIC id [dec]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_QOS_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less than
[dec]%%threshold set for app [chars], ASIC id [dec]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

U

```
%UEA_TCAM-3-TCAM_UCASTV4_THRESHOLD : TCAM-above-threshold: TCAM usage more than
[dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_UCASTV4_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less
than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_UCASTV6_THRESHOLD : TCAM-above-threshold: TCAM usage more than
[dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become equal/gone beyond the threshold level

Recommended Action Depends on the user

```
%UEA_TCAM-3-TCAM_UCASTV6_THRESHOLD_UNDER : TCAM-below-threshold: TCAM usage less
than [dec]%%threshold set for app [chars]
```

Explanation The TCAM usage for the application has become less than the the threshold level

Recommended Action Depends on the user

UIPEER

```
%UIPEER-2-TDL_MESSAGE : Cannot construct an IPC message for library. The message
name is [chars] and the reason is: [chars]
```

Explanation 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.

Recommended Action Check [uipeer] ERR entries in the log files for message reporting problems.

```
%UIPEER-3-INVALID_DEBUG_MESSAGE : The peer process was unable to process an incoming
message for 'debug all' from the shell-manager
```

Explanation 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.

Recommended Action Check the trace files for the Shell Manager failed process. Restart the system.

V

`%UIPEER-3-INVALID_EPOCH_MESSAGE` : The peer process was unable to process an incoming epoch update message from the shell-manager

Explanation 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.

Recommended Action Check the trace files for the Shell Manager failed process. Check or undo any recently installed packages, then restart the system.

`%UIPEER-3-INVALID_HOSTINFO_MESSAGE` : The peer process was unable to process an incoming message for host info from the shell-manager

Explanation 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.

Recommended Action Check the trace files for the Shell Manager failed process. Restart the system.

`%UIPEER-3-NO_PEER` : A process was unable to retrieve a shell-manager peer handle.

Explanation 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.

Recommended Action Check [uipeer] ERR entries in the log files for message reporting problems.

`%UIPEER-5-TIMER_ACCURACY_TEST` : Timer Accuracy Test [chars].

Explanation Test result of Timer Accuracy Test

Recommended Action No action is required. This is informational message

V

VIRT_SERVICE

`%VIRT_SERVICE-3-ACTIVATE_FAIL` : Failed to send virtual service [chars] activate message

Explanation During the creation and transmission of the virtual service activate TDL message a failure occurred. The message was not successfully sent and therefore the virtual service was not activated.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-DEACTIVATE_FAIL : Failed to send virtual service [chars] deactivate message
```

Explanation During the creation and transmission of the virtual service deactivate TDL message a failure occurred. The message was not successfully sent and therefore the virtual service was not deactivated.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-INIT_FAIL : Failed to initialize required virtual service object: [chars]
```

Explanation During the initialization of the resources required for the virtual service feature, a memory allocation failure occurred. This has prevented the virtual service feature from being enabled.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-INVALID_APPLIANCE_TIMEOUT : A response timeout occurred for an invalid virtual service
```

Explanation An unexpected condition occurred where the virtual service context pointer in the expired timer was set to NULL.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-INVALID_RF_MSG : Received an invalid RF message type from peer
```

Explanation An unexpected condition occurred where an invalid message type was detected.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-PKG_PATH : Failed to [chars] required by virtual service [chars]
```

Explanation Specified package definition file was not found following a switchover.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-PKG_PATH_ACTIVATE : Failed to [chars]. Virtual service [chars] will not be activated
```

Explanation Specified package definition file was not found following a switchover. Unable to activate virtual service without specified package definition file present.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-RESET : Virtual service [chars] reset
```

Explanation An unexpected condition has occurred where Virt-manager has reported that it detected the named virtual service reset. This virtual service is not configured to be activated and as such, no attempt to reactivate it will be made.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-RESPONSE_TIMEOUT : Virtual service [chars] timed out waiting for a response from Virt-manager
```

Explanation Failed to receive a response message from Virt-manager for last activation operation performed on the named virtual service. The virtual service activation state was marked as deactivated.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-ROMMON_UNSUPPORTED : ROM monitor configuration does not support virtualization
```

Explanation Virtualization is not supported by the current ROM monitor configuration. Verify both the ROM monitor version and ROM monitor variable ENABLE_VTX are correct to enable virtualization.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%VIRT_SERVICE-3-SEND_RF_MSG : Failed to send RF message to peer -[chars]
```

Explanation An unexpected condition occurred where an attempt to send an RF message to peer failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-STBY_PKG_PATH : Failed to [chars] required by virtual service [chars] on standby
```

Explanation Specified package definition file was not found on standby. Configuration was accepted. Copy package definition file to standby at earliest convenience.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-STBY_ROMMON_UNSUPPORTED : Standby ROM monitor configuration does not support virtualization
```

Explanation Virtualization is not supported by the current ROM monitor configuration on the standby. Verify both the ROM monitor version and ROM monitor variable ENABLE_VTX are correct to enable virtualization.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-UNKNOWN_APPLIANCE_TIMEOUT : A response timeout occurred for unknown virtual service [chars]
```

Explanation A response timeout occurred for a virtual service that is no longer in the virtual service database.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-UNKNOWN_RF_MSG : Received an unknown RF message type ([dec]) from peer
```

Explanation An unexpected condition occurred where an unknown timer event was detected.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-UNKNOWN_TIMEOUT_TYPE : A response timeout occurred for an unknown
timeout type ([dec])
```

Explanation An unexpected condition occurred where an unknown timeout type was detected.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-UNKNOWN_TIMER_EVENT : A timer event occurred for an unknown timer
event ([dec])
```

Explanation An unexpected condition occurred where an unknown timer event was detected.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-3-UNPROVISION_FAIL : [chars]: [chars]
```

Explanation During the unprovision of the named virtual service, an unexpected failure occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-4-SWITCHOVER_ACTIVATE : Virtual service [chars] will not be activated
following a switchover
```

Explanation Following a switchover, this virtual service will not be activated as there is an issue with its package definition file. Copy package definition file to standby at earliest convenience.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the

representative with the gathered information.

```
%VIRT_SERVICE-5-ACTIVATION_STATE : [chars] [chars]
```

Explanation The activation state of the named virtual service has changed as notified by Virt-manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-5-INSTALL_STATE : [chars] [chars]
```

Explanation The installation state of the named virtual service has changed as notified by Virt-manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

```
%VIRT_SERVICE-5-RESET_REACTIVATE : Virtual service [chars] reset and will be reactivated
```

Explanation Virt-manager has reported that it detected the named virtual service reset. An attempt will be made to reactivate this virtual service.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the tools at <https://cway.cisco.com/go/sa/>. Also perform a search using the Bug Search Tool: <https://bst.cloudapps.cisco.com/bugsearch/>. If you still require assistance, open a case with the Technical Assistance Center: <https://mycase.cloudapps.cisco.com/start>, or contact your Cisco technical support representative and provide the representative with the gathered information.

VMAN

```
%VMAN-2-ACTIVATION_STATE : [chars] '[chars]' [chars] [chars]
```

Explanation The activation state of the named virtual service has changed as notified by Virt-manager.

Recommended Action 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-ALLOC_VIRT_INST_RCS : Virtual Service[chars]
```

Explanation A memory allocation request failed to allocate a data structure required to activate the virtual service.

Recommended Action 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 : Virtual Service[chars]
```

Explanation The request to commit the resources required by the named virtual service failed.

Recommended Action 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 : Virtual Service[chars]
```

Explanation The virtual service machine definition file is requesting more CPU shares than the system has available for virtual services.

Recommended Action 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 : Virtual Service[chars]
```

Explanation Virt-manager and its associated infrastructure experienced an internal error.

Recommended Action 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_SHARES_LIMIT : Virtual Service[chars]
```

Explanation The virtual service machine definition file is requesting more CPU shares than the system has available for virtual services.

Recommended Action 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 : Virtual Service[chars]
```

Explanation The request to create a DB entry for the named virtual service failed.

Recommended Action 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-DEACT_FOR_ISSU : [chars] Max ([int]s)
```

Explanation 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.

Recommended Action None. Allow the ISSU to continue and the VMs will restart when the ISSU completes or cancel the ISSU and vman will automatically

```
%VMAN-2-DEFER_VIRT_INST_PROC : Virtual Service[chars]
```

Explanation The final activation processing failed to successfully defer.

Recommended Action 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-DISK_IMAGE_PATH : Virtual Service[chars]
```

Explanation 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.

Recommended Action 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 : Failed to find virtual service with id [int] in the
Virt-manager DB
```

Explanation The virtual service with the ID named could not be located in the Virt-manager DB.

Recommended Action 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 : Virtual Service[chars]
```

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

```
%VMAN-2-GUESTSHELL_ENABLED : The guest shell has been enabled. The command '[chars]'
may be used to access it, '[chars] destroy' to remove it.
```

Explanation Informs the user that the guest shell virtual service has been enabled (which is done by default).

Recommended Action The user may use or remove the guest shell with the commands specified.

```
%VMAN-2-HA_STATE : [chars] [chars] [chars] [chars]
```

Explanation 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.

Recommended Action 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 : [chars] [chars] [chars] [chars]
```

Explanation VMAN HA switchover state related messages for a virtual-service whilst it is being recovered on newly active RP after a HA switchover.

Recommended Action 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_SYNC_ERR : [chars] '[chars]' [chars]
```

Explanation The ha-sync persistent storage disk for the virtual service cannot be watched for sync to standby RP.

Recommended Action Collect the Virt-manager logs and scan them for the cause.

```
%VMAN-2-HA_SYNC_THREAD_STATE : HA remote synchronize thread has failed and exited.
```

Explanation 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.

Recommended Action 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_CPUNETES_CONFIG : Virtual Service[chars]
```

Explanation The virtual service machine definition file is requesting invalid CPU tunes parameter.

Recommended Action 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.

```
%VMAN-2-INCONSISTENT_MEM_CONFIG : Virtual Service[chars]
```

Explanation The virtual service machine definition file is inconsistent in the specification of required memory via the <memory> and <currentMemory> nodes.

Recommended Action 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 : Virtual Service[chars]
```

Explanation Inserting the named virtual service into the virtual service DB tracked by Virt-manager failed.

Recommended Action 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 : Virtual Service[chars]
```

Explanation The installation of the virtual service failed.

Recommended Action 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.

```
%VMAN-2-INSTALL_LOG : [chars] [chars] [chars] [chars]
```

Explanation The installation log of the named virtual service, is to provide more information about long running operation, that could affect the control of CLI

Recommended Action No action is required

```
%VMAN-2-INSTALL_MEDIA_RETRY : VMAN, VM install media still unavailable.[chars]
```

Explanation The install media was not detected. Waiting for udev to complete install media(harddisk) detection.

Recommended Action After VMAN exceeds the maximum retry limit, verify if install media (harddisk) is accessible and retry the installation again.

```
%VMAN-2-INSTALL_STATE : [chars] '[chars] '[chars] [chars]
```

Explanation The installation state of the named virtual service has changed as notified by Virt-manager.

Recommended Action 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-INVALID_ACT_MSG : Virtual Service[chars]
```

Explanation The virtual service activate message was received, however, the data it contained could not be interpreted

Recommended Action 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 : Failed to process virtual service deactivate message
```

Explanation The virtual service deactivate message was received, however, the data it contained could not be interpreted

Recommended Action 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 : Virtual Service[chars]
```

Explanation The package definition file for the named virtual service has failed to be validated and the virtual service will not run

Recommended Action 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.

```
%VMAN-2-INVALID_UNPROV_MSG : Failed to process virtual service unprovision message
```

Explanation The virtual service unprovision message was received, however, the data it contained could not be interpreted

Recommended Action 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 : Virtual Service[chars]
```

Explanation The virtual service cannot be activated as the machine type specified is not supported

Recommended Action 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 : Virtual Service[chars]
```

Explanation The named virtual service has an invalid parameter specified in the .xml file inside the .ova package

Recommended Action Fix the .xml file inside the .ova package to have valid values. Then retry installing and activating it

```
%VMAN-2-MEMORY_LIMIT : Virtual Service[chars]
```

Explanation The virtual service machine definition file is requesting more memory than the system has available for virtual services.

Recommended Action 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 : Virtual service ([chars])[chars] defines [int] MB of
Memory exceeding the maximum [int] MB.
```

Explanation The virtual service machine definition file is requesting more memory for the specified profile, than the system has available for virtual services.

Recommended Action 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_CPUNETES_CONFIG : Virtual Service[chars]
```

Explanation The virtual service machine definition file is requesting more than one CPU tunes parameter.

Recommended Action 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.

```
%VMAN-2-MOVE_STATE : [chars] '[chars]' [chars] [chars]
```

Explanation The move of the core or log file of the named virtual service has as been successful or failed as notified by Virt-manager.

Recommended Action 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 : Virtual Service[chars]
```

Explanation A network configuration error has been detected for the named virtual service.

Recommended Action No action is required

```
%VMAN-2-PROCESS_PKG_DEF : Virtual Service[chars]
```

Explanation The virtual service package for the named virtual service has failed to be validated and the virtual service will not run.

Recommended Action 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-PROC_INT_LIST : Virtual Service[chars]
```

Explanation The interface list embedded in the activate request for the named virtual service could not be processed.

Recommended Action 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 : Virtual Service[chars]
```

Explanation Removing the named virtual service from the virtual service DB tracked by Virt-manager failed.

Recommended Action 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-RESET_FORCE : Virtual Services non-recoverable reset command processed
```

Explanation 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 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.

Recommended Action Once the command is entered and accepted, there is no recourse but to restart the system.

```
%VMAN-2-RESIZE_OPER_STATE : Virtual service '[chars]' [chars][chars] to '[int]'
[chars]
```

Explanation 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.

Recommended Action 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-RSYNC_STATE : [chars] [chars] [chars] [chars]
```

Explanation 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.

Recommended Action 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 : Failed to set ROM monitor variable ENABLE_VTX: No space in table
```

Explanation Failed to set ENABLE_VTX ROM monitor variable due to no space in Monitor Variable Table.

Recommended Action Verify number of entries in Monitor Variable Table.

```
%VMAN-2-SET_VTX_ROMVAR_STRING : Failed to set ROM monitor variable ENABLE_VTX: Invalid string format: [chars]
```

Explanation Failed to set ENABLE_VTX rom monitor variable due to invalid string format.

Recommended Action Verify format of string from error message.

```
%VMAN-2-START_FAILED : Virtual Service[chars]
```

Explanation The named virtual service failed to start.

Recommended Action 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-UNINSTALL_ALL_VMS : All Virtual Services are being uninstalled [chars][chars] [chars]
```

Explanation All virtual services are being uninstalled by Virt-manager.

Recommended Action 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 : [chars] [chars] [chars] [chars]
```

Explanation The upgrade log of the named virtual service, is to provide more information about long running operation, that could affect the control of CLI

Recommended Action No action is required

```
%VMAN-2-VCPU_INVALID : Virtual Service[chars]
```

Explanation The virtual service machine definition file is requesting invalid VCPU value.

Recommended Action 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-VCPU_LIMIT : Virtual Service[chars]
```

Explanation The virtual service machine definition file is requesting more VCPUs than the system has reserved for virtual services.

Recommended Action 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 : VIRTUAL SERVICE [chars] LOG: [chars]
```

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

```
%VMAN-2-VIRT_INST_DISK : Virtual Service[chars]
```

Explanation The virtual service requires Disk Storage in excess of the Free Disk Storage available to virtual services.

Recommended Action 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_INTERFACE : Virtual Service[chars]
```

Explanation The number of configured virtual port group interfaces must match the number of Ethernet Network Interfaces defined in the machine definition file

Recommended Action 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 : Failed to unthrottle the log for virtual service [chars]
```

Explanation 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.

Recommended Action For debugging collect the virt-manager logs and scan them for the cause.

```
%VMAN-2-VIRT_INST_MEMORY : Virtual Service[chars]
```

Explanation The virtual service requires physical memory in excess of the free memory available to virtual services.

Recommended Action 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 : Virtual service [chars] has no management interface defined but it is configured in CLI.
```

Explanation A management interface is configured but none is defined.

Recommended Action Deactivate the virtual service, remove the management interface configuration CLI, and reactivate the virtual-service.

```
%VMAN-2-VIRT_INST_STATE : Virtual Service[chars]
```

Explanation 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.

Recommended Action 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 : Purpose: [chars], URI: [chars], errcode: [dec]
```

Explanation Persistent Storage Service handling error

Recommended Action Collect the Virt-manager logs and scan them for the cause.

```
%VMAN-3-PSS_SNAPSHOT_ERR : Source URI: [chars], Destination URI: [chars], errcode: [dec]
```

Explanation Persistent Storage Service snapshot error

Recommended Action Collect the Virt-manager logs and scan them for the cause.

```
%VMAN-3-SDWRAP_ERR : Description: [chars], errcode: [dec]
```

Explanation Debug infrastructure error

Recommended Action Collect the Virt-manager logs and scan them for the cause.

```
%VMAN-3-VIRT_INST_ERR : VIRTUAL SERVICE [chars] LOG: [chars]
```

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

```
%VMAN-4-HA_SYNC_NEEDED : If using the guest shell, please use 'guestshell sync' if you want to preserve state on standby in case of supervisor switchover
```

Explanation 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

Recommended Action 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 : Package signing level changed from allow '[chars]' to allow '[chars]'
```

Explanation The package certificate signing level global setting has been changed via configuration under the virtual-service global sub-mode.

Recommended Action Ensure that this setting has been changed as expected by an authorized user.

```
%VMAN-4-UPDATE_WARNING : Virtual Service[chars]
```

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

```
%VMAN-4-VIRT_INST_WARN : VIRTUAL SERVICE [chars] LOG: [chars]
```

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

```
%VMAN-4-VIRT_SERV_LIBVIRTD_WARN : VMAN not able to connect to the libvirt daemon af-
ter '[dec]' attempts
```

Explanation VMAN has been unable to connect to the libvirt daemon. Virtualization services will not be available until this connection is made.

Recommended Action Collect the logs produced by 'show virt tech'

```
%VMAN-4-WATCHDOG_TIMER : [chars] '[chars]' [chars] [chars]
```

Explanation The watchdog timer configured for the named virtual service has expired.

Recommended Action Check any logs produced by the virtual service to determine the cause.

```
%VMAN-5-AUX : Virtual Service[chars]
```

Explanation 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.

Recommended Action No action is required

```
%VMAN-5-PACKAGE_SIGNING_LEVEL_ON_INSTALL : Package '[chars]' for service container
'[chars]' is '[chars]', [chars] '[chars]'
```

Explanation A service container software package with the certificate signing level described is being installed.

Recommended Action 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.

```
%VMAN-5-PERMISSION_DENIED : Virtual Service '[chars]' is not owned by client IOSd
```

Explanation An attempt was made to modify a virtual-service that is not owned by the client. The request was rejected.

Recommended Action No action is required.

```
%VMAN-5-VIRT_INST : LOG FROM VIRTUAL SERVICE [chars]: [chars]
```

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

```
%VMAN-5-VIRT_INST_NOTICE : VIRTUAL SERVICE [chars] LOG: [chars]
```

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

```
%VMAN-6-VIRT_INST_INFO : VIRTUAL SERVICE [chars] LOG: [chars]
```

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

```
%VMAN-7-VIRT_INST_DEBUG : VIRTUAL SERVICE [chars] LOG: [chars]
```

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

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