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MPLS_TP_PROC through NCS4200INTF

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MPLS_TP_PROC**%MPLS_TP_PROC-3-PROC_CREATE_FAIL : [chars] [chars] [dec]**

| | |
|---------------------------|---|
| Explanation | Could not create MPLS-TP process. This is an internal issue to MPLS-TP |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%MPLS_TP_PROC-3-UNKNOWN_MESSAGE : Received unknown message:[dec]

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

%MPLS_TP_PROC-3-UNKNOWN_EVENT : Received unknown event: Major:[dec] Minor:[dec]

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

MPLS_TP_TIMER**%MPLS_TP_TIMER-3-UNKNOWN_TIMER_TYPE_EXPIRY : Unknown timer type expired:[dec]**

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

MSG_FIFO

%MSG_FIFO-2-MSG_FIFO_CREATE : [chars]: Bad parameter to message fifo create [chars] = [hex]

Explanation Failed to create message fifo, invalid memory size or other parameter.

Recommended Action LOG_STD_ACTION

MTRIE

%MTRIE-4-MTRIECORRUPTLEAF : [IP_address]/[dec] - [chars]

Explanation An internal software error occurred.

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

%MTRIE-4-MTRIELEAFOPFAIL : [IP_address]/[dec] - [chars]

Explanation An internal software error occurred.

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

%MTRIE-4-PLACEALLOC : Failed to allocate place holder

Explanation An internal software error occurred.

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

%MTRIE-4-MTRIEMISALIGNEDNODEPTR : [hex] - [chars]

Explanation An internal software error occurred.

%MTRIE-4-MTRIEMISALIGNEDNODEPTR : [hex] - [chars]

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

MX

%MX-6-NOMEM : [chars] bufhdr allocation failure, MSGDEF_LIMIT_MEDIUM

Explanation An attempt to allocate memory failed. This could cause features that manage packets in multiple pieces, or that directly export data, not to work properly in some cases.

Recommended Action LOG_STD_ACTION

%MX-3-CARVE : [chars]: size [int] too small

Explanation A software error resulted in an attempt to create buffers in an area of memory that was too small.

Recommended Action LOG_STD_ACTION

%MX-3-RESIZE : [chars]: non-contiguous resize: orig [hex]/[hex], new [hex]/[hex], MSGDEF_LIMIT_MEDIUM

Explanation A software error was detected during a resize operation on the specified memory region.

Recommended Action LOG_STD_ACTION

%MX-6-NOBUFHDR : [chars]

Explanation An attempt to add buffers within a memory region failed.

Recommended Action LOG_STD_ACTION

%MX-3-MAXPOOLS : too low

Explanation A source code inconsistency was detected.

Recommended Action Increase the number of pools allowed.

%MX-3-INITBUFHDR : [chars]: mgmt memory allocation failure (size [int])

Explanation insufficient mgmt memory provided for initialization of the external memory manager, which will cause features that manage packets in multiple pieces, or that directly export data, not to work properly.

Recommended Action LOG_STD_ACTION

%MX-3-BADSTART : [chars]: [hex] (current [hex], size [int])

Explanation A software error was detected during an attempt to increase the size of an external memory region.

Recommended Action LOG_STD_ACTION

%MX-3-BADPOOL : [chars]: [int]

Explanation Software detected the use of an invalid pool index, which may be the result of incompatible software versions on different system components.

Recommended Action LOG_STD_ACTION

%MX-3-BADFEAT : [chars]: [dec]

Explanation Software detected the use of an invalid feature enumeration, which may be the result of incompatible software versions on different system components.

Recommended Action LOG_STD_ACTION

%MX-3-BADMAGIC : [chars]: [hex] in [hex], MSGDEF_LIMIT_MEDIUM

Explanation A data structure inconsistency was detected in a buffer header, perhaps as the result of memory corruption. A buffer has been dropped because of this, resulting in a memory leak and potential system unreliability.

Recommended Action Please report the problem Cisco technical support, along with the text of the error message. If the system becomes unstable, restarting or reloading the affected component should correct the instability.

%MX-3-SUBRGNIDX : [chars]: Subregion Index allocation failure

| | |
|---------------------------|---|
| Explanation | Unable to obtain a sub region index so unable add sw managed memory |
| Recommended Action | LOG_STD_ACTION |

NAT

%NAT-3-ALLOC_FAIL : data [hex], MSGDEF_LIMIT_GLACIAL

| | |
|---------------------------|---|
| Explanation | A request exceeded for memory allocation failed |
| Recommended Action | LOG_STD_ACTION |

%NAT-3-RMAP_OP_FAIL : Routemap hash table not set up (attempted [chars]), MSGDEF_LIMIT_MEDIUM

| | |
|---------------------------|---|
| Explanation | An operation was attempted on the route map hash table, but the hash table hash not yet been initialized. |
| Recommended Action | LOG_STD_ACTION |

%NAT-3-MAPPING_REFCNT_FAIL : refcount [dec], MSGDEF_LIMIT_MEDIUM

| | |
|---------------------------|---|
| Explanation | The mapping reference count is below zero. This indicates that the reference count incrementing and decrementing operations are out of sync |
| Recommended Action | LOG_STD_ACTION |

%NAT-3-DYN_PAT_MAP_UPD_OR_ADD_FAIL : rc [dec], MSGDEF_LIMIT_MEDIUM

| | |
|---------------------------|--|
| Explanation | The add or update of a dynamic pat mapping failed with the associated return code. This will generally mean that the IOS configuration is now out of sync with the data plane. The mapping should be removed from the configuration to try to get things back in sync. |
| Recommended Action | LOG_STD_ACTION |

%NAT-3-EMPTY_CHUNK : id [int], MSGDEF_LIMIT_MEDIUM

| | |
|--------------------|--|
| Explanation | The memory provided by the client to the datapath initialization is NULL |
|--------------------|--|

%NAT-3-EMPTY_CHUNK : id [int], MSGDEF_LIMIT_MEDIUM

Recommended Action LOG_STD_ACTION

%NAT-3-CHUNK_ID_MISMATCH : id [int] not found, MSGDEF_LIMIT_MEDIUM

Explanation The chunk ID provided by the client doesn't match any of the available chunk IDs. Hence a valid chunk could not be found for the given chunk ID.

Recommended Action LOG_STD_ACTION

%NAT-3-HA_NO_BUF : , MSGDEF_LIMIT_MEDIUM

Explanation There was not enough memory to send the HA record

Recommended Action LOG_STD_ACTION

%NAT-3-HA_BULK_SYNC_FAIL : flags [hex] rg [dec], MSGDEF_LIMIT_MEDIUM

Explanation There was a failure such that NAT Bulk Sync did not occur

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_FIND_SESS : in_orig adr [hex] port [hex] out_trans adr [hex] port [hex] vrf [hex] prot [hex] cook [hex] [hex], MSGDEF_LIMIT_MEDIUM

Explanation Standby could not find the session indicated by the HA message

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_FIND_MATCHING_SESS : values (msg/session): in_orig adr ([hex]/[hex]) port ([hex]/[hex]) out_trans adr ([hex]/[hex]) port ([hex].[hex]), MSGDEF_LIMIT_MEDIUM

Explanation Standby could not find the matching session indicated by the HA message

Recommended Action LOG_STD_ACTION

%NAT-3-HA_STANDBY_CLR_DB_FAILED : rc=[dec], MSGDEF_LIMIT_MEDIUM

Explanation Standby failed trying to clear databased with indicated return code

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_CREATE_SESS : in_orig adr [hex] port [hex] out_trans adr [hex] port [hex] vrf [hex] prot [hex] cook [int] rg [dec], MSGDEF_LIMIT_MEDIUM

Explanation Standby could not create the session indicated by the HA message

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_LOCK_PARENT : in_orig adr [hex] port [hex] out_trans adr [hex] port [hex] vrf [hex] prot [hex] cook [int], MSGDEF_LIMIT_MEDIUM

Explanation Standby could not lock parent of the session; thus session not created

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_CREATE_BIND : idomain [dec] orig adr [hex] port [hex] trans adr [hex] port [hex] vrf [hex] prot [hex] rg [dec], MSGDEF_LIMIT_MEDIUM

Explanation Standby could not create the bind indicated by the HA message

Recommended Action LOG_STD_ACTION

%NAT-3-HA_INVALID_MSG_RCVD : invalid value [dec] opcode [hex] version [hex], MSGDEF_LIMIT_MEDIUM

Explanation Standby received an invalid NAT HA message

Recommended Action LOG_STD_ACTION

%NAT-4-HA_INVALID_MSGVER_RCVD : invalid version [dec], MSGDEF_LIMIT_GLACIAL

Explanation Standby received an invalid NAT HA message

Recommended Action LOG_STD_ACTION

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

Explanation An invalid HA state was received from the HA infrastructure.

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_ALLOC_ADDR : addr %Ci port [hex], MSGDEF_LIMIT_MEDIUM

Explanation The standby NAT could not allocate the address requested by the active

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_FIND_POOL : pool_id [dec], MSGDEF_LIMIT_MEDIUM

Explanation The standby NAT could find the pool indicated by the active

Recommended Action LOG_STD_ACTION

%NAT-3-HSL_ALLOC_FAIL : [chars], MSGDEF_LIMIT_MEDIUM

Explanation High Speed logging memory allocation failed. When this happens the event will not be exported to the collector. This indicates a temporary condition when the system runs low on memory. The failure does not have any effects on the operation of NAT

Recommended Action LOG_STD_ACTION

%NAT-6-LOG_TRANSLATION : [chars] Translation [chars] %Ci:[dec] %Ci:[dec] %Ci:[dec] %Ci:[dec] [dec]

Explanation A translation was created as a result of either a configuration or traffic flowing through the NAT subsystem

Recommended Action This message is for debugging purposes only and gets logged only when logging is turned on

%NAT-3-STATIC_MAP_ADD_FAIL : local addr %Ci global addr %Ci [chars], MSGDEF_LIMIT_MEDIUM

Explanation An add of a static NAT mapping failed due to listed reason. This mapping will be in the IOS configuration, but is not active in the data plane. It is recommended to remove the mapping from the configuration

Recommended Action LOG_STD_ACTION

%NAT-4-DEFAULT_MAX_ENTRIES : default maximum entries value [dec] exceeded; frame dropped, MSGDEF_LIMIT_MEDIUM

Explanation This is an information message which occurs when NAT is configured and a frame is dropped due to the default maximum entries limit. Starting with release 5, XNE, NAT will use a default max-entries in the data plane based on the ESP type. This will not show in the configuration and is overridden by any user configuration of 'ip nat trans max-entries <value>'. The purpose of the default data plane limit is to protect the box from memory exhaustion which could occur if no limit is enforced.

Recommended Action

%NAT-6-ADDR_ALLOC_FAILURE : Address allocation failed; pool [dec] may be exhausted [[dec]], MSGDEF_LIMIT_MEDIUM

Explanation This message indicates that an address could not be allocated from a pool because there were no free addresses in the pool at that time.

Recommended Action

%NAT-6-POOL_WATERMARK_HIGH : [chars] High watermark reached for pool [dec], MSGDEF_LIMIT_FAST/100

Explanation This message indicates that pool usage has crossed its high watermark. Pool may exhaust soon.

Recommended Action

%NAT-6-CLEAR_FAIL_TRANS_IN_USE : , MSGDEF_LIMIT_MEDIUM

Explanation The requested clear failed because the transaction was in use. Some clear commands support a 'forced' keyword which allows you to override this.

Recommended Action LOG_STD_ACTION

%NAT-3-PER_VFR_HSL_ADD_FAILED : , MSGDEF_LIMIT_MEDIUM

Explanation The attempt to turn on NAT HSL for a vrfid %d failed. Please remove configuration and try again.

Recommended Action LOG_STD_ACTION

%NAT-3-POOL_ADD_FAIL : pool-id [dec] rc [dec], MSGDEF_LIMIT_MEDIUM

Explanation A request to the data plane to add or update a pool has failed To clean up remove pool configuration and try re-adding it

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_CLR : Standby temporarily unable to process clear; please retry, MSGDEF_LIMIT_MEDIUM

Explanation A request from the active to process a clear translation failed. Please retry.

Recommended Action LOG_STD_ACTION

%NAT-3-SHOW_TRANS_FAIL : unable to show [dec] entries from bucket [int], MSGDEF_LIMIT_MEDIUM

Explanation Unable to show some entries from session database. If using verbose, try using non-verbose. Otherwise situation is likely to be temporary. Or it may be wise to do 'clear ip nat trans *' as a very odd session distribution has occurred.

Recommended Action LOG_STD_ACTION

%NAT-3-SHOW_LIMIT_FAIL : unable to show [int] entries from bucket [int], MSGDEF_LIMIT_MEDIUM

Explanation Unable to show some entries from limit database. The situation is likely to be temporary. Or it may be wise to do 'clear ip nat trans *' as a very odd limit entry distribution has occurred.

Recommended Action LOG_STD_ACTION

%NAT-4-SHOW_BIND_NOT_COMPLETE : Unable to show all of NAT binds due to internal error; try again, MSGDEF_LIMIT_MEDIUM

Explanation This is an information message which occurs when NAT is unable to show all address binds due to an internal error. Please try operation again.

Recommended Action

%NAT-3-STATIC_MAP_ADD_FAILED : local addr %Ci global addr %Ci [chars], MSGDEF_LIMIT_MEDIUM

Explanation An add of a static NAT mapping failed due to listed reason. This mapping will be in the IOS configuration, but is not active in the data plane. It is recommended to remove the mapping from the configuration

Recommended Action LOG_STD_ACTION

%NAT-3-DYN_MAP_ADD_FAIL : [chars], MSGDEF_LIMIT_MEDIUM

Explanation The add of a dynamic mapping failed. This will generally mean that the IOS configuration is now out of sync with the data plane. The mapping should be removed and then re-added to try to get things back in sync.

Recommended Action LOG_STD_ACTION

%NAT-4-FORCED_DEL_BIND_FAILED : Unable to find bind to forcibly delete, MSGDEF_LIMIT_MEDIUM

Explanation This is an information message which occurs when NAT is unable to find a bind even though IOS thinks the bind exists. Please try other methods of clearing transaction.

Recommended Action

%NAT-3-DP_REL_FAIL : DP REL FAIL, retry count [dec] exceeded max, MSGDEF_LIMIT_MEDIUM

Explanation The dp release fail due to too many retry on freeing session chunk

Recommended Action LOG_STD_ACTION

%NAT-4-SEQ_DELTA_LIST_CORRUPT : Sequence Delta list tail pointer null in error, MSGDEF_LIMIT_MEDIUM

Explanation For unknown reasons, sequence delta list tail pointer is null

Recommended Action LOG_STD_ACTION

NAT64

%NAT64-3-EINVAL : NULL

Explanation An unexpected input value to a function was incorrect

%NAT64-3-EINVAL : NULL

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

%NAT64-3-UNINITIALIZED : NAT64 feature is not properly initialized

Explanation A function call was made when the system was not properly initialized.

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

%NAT64-3-INIT_FAILED : An initialization failed, rc[chars]

Explanation An initialization in the system has failed.

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

%NAT64-3-ENOENT : NULL

Explanation A lookup failed unexpectedly.

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

%NAT64-3-EEXIST : NULL

Explanation An item unexpectedly exists already.

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

%NAT64-3-ENOMEM : Memory allocation failed

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

%NAT64-3-NAT64_REGISTRY_RC : A NAT64 registry call failed with rc([chars])

| | |
|---------------------------|---|
| Explanation | The return code from a NAT64 registry call indicates an error. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%NAT64-3-BAD_MAGIC : Invalid magic number(%#10x)

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

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

%NAT64-3-RUNAWAY_LOOP : NULL

| | |
|--------------------|--|
| Explanation | A loop has exceeded the expected number of iterations. |
|--------------------|--|

%NAT64-3-RUNAWAY_LOOP : NULL

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

%NAT64-5-ALIAS_NOT_FOUND : Unable to find alias, address([IP_address]) table_id([int])

| | |
|---------------------------|---|
| Explanation | An attempt was made to remove an IP alias for a NAT64 address and the alias does not exist. This is a notification that such an event happened and should not have any functional impact. This could happen under heavy load if, for example, a previous best effort message to add the alias was dropped. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%NAT64-6-HA_RELOAD : Reloading [chars], reason([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. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%NAT64-6-HA_RELOAD_DISABLED : Standby reload has been disabled, NAT64 RP state is out of sync and the standby should be reloaded manually

| | |
|---------------------------|---|
| Explanation | The active and standby RPs are out of sync and the standby RP would have been reloaded, but this reload was suppressed based on the configured environment. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%NAT64-6-HA_PEER_READY : NULL

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

%NAT64-6-HA_FLOW_CTRL_TIMEOUT : Bulk sync is flow controlled by [chars]

Explanation The bulk synchronization of the NAT64 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. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-6-MAP_E : 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. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

NATMIB_HELPER

%NATMIB_HELPER-3-NOCREAT : NATMIB Helper Process not created - NAT MIB will not work properly

Explanation Attempt to start NATMIB Helper Process failed whenthe natmib subsystem was initialised.

Recommended Action The NATMIB Helper process was notcreated,possibly due to lack of memory. If you want to use the NATMIB, reconfigure the box so that less memory is used byother features, or add more memory to the system. Reload the boxafter reconfiguring.

NCS4200IM**%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**

%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**

%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**

%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**

%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**

%NCS4200IM-3-INVALID_MODE : [chars] with mode [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

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

NCS4200_RP_ATM_SPA through NTP

- [NCS4200_RP_ATM_SPA](#)
- [NDBMAN](#)
- [NDBUTIL](#)
- [NETCLK](#)
- [NETWORK_CLOCK_SYNCHRONIZATION](#)
- [NETWORK_RF_API](#)
- [NIF_MGR](#)
- [NIM_XXD](#)
- [NMSP_SYSLOG](#)
- [NTP](#)

NCS4200_RP_ATM_SPA

%NCS4200_RP_ATM_SPA-3-ATM_PER_SPA_MAX_VC_LIMIT_REACHED : total active atm vc per ATM SPA reached limitation of [dec]

Explanation total number of active atm vc per ATM SPA has reached max limit

%NCS4200_RP_ATM_SPA-3-ATM_PER_SPA_MAX_VC_LIMIT_REACHED : total active atm vc per ATM SPA reached limitation of [dec]

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

NDBMAN

%NDBMAN-5-ACTIVE :

| | |
|---------------------------|---|
| Explanation | All data providers active. |
| Recommended Action | Informational only. No action required. |

%NDBMAN-5-RESET :

| | |
|---------------------------|---|
| Explanation | At least one data provider has stopped. |
| Recommended Action | Informational only. No action required. |

NDBUTIL

%NDBUTIL-4-OUT_OF_RANGE_FOR_DECIMAL64_AND_FD : Double (%1\$s) with value (%2\$lf) is out-of-range (-%3\$d to %3\$d, exclusive) for a Decimal64 with fraction-digits = %4\$d.

| | |
|---------------------------|--|
| Explanation | The value of the EI double cannot be reliably converted to Yang Decimal64 with the specified fraction-digits with the proper precision, so the EI to Yang conversion is intentionally failing. The EI value should not be this big, so there's an error with the module setting the attribute's value. |
| Recommended Action | Report an error to the Cisco engineering team responsible for the module that's setting the attribute. |

NETCLK

%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

Recommended Action No action required

%NETCLK-5-NETCLK_PHASE_LOST : Network clock source not available. Phase-lost on clock priority [dec] [chars]

Explanation

Recommended Action No action required

%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, LOG_STD_SH_CMD_ACTION(show logging and show network-clocks)

%NETCLK-6-SRC_REM : Synchronization source [chars] is removed from [chars] selection process.

Explanation Synchronization source is removed from synchronization source selection process(es), i.e. T0 or selection process per T4. Source Removal is always through configuration.

Recommended Action No action is required.

%NETCLK-6-ALL_SRC_REM : All synchronization sources have been removed from [chars] selection process.

Explanation All synchronization sources are removed from synchronization source selection process(es), i.e. T0 or selection process per T4. Source Removal is always through configuration.

Recommended Action No action is required.

%NETCLK-6-SRC_ADD : Synchronization source [chars] is added to [chars] selection process.

Explanation Synchronization source is added to synchronization source selection process(es), i.e. T0 or selection process per T4. Source Addition is always through configuration.

%NETCLK-6-SRC_ADD : Synchronization source [chars] is added to [chars] selection process.

Recommended Action No action is required.

%NETCLK-6-SRC_UPD : Synchronization source [chars] status [chars] is posted to all selection process.

Explanation Synchronization source status (event) is updated to synchronization source selection process(es), i.e. T0 or selection process per T4. Status update is in the message.

Recommended Action No action is required.

%NETCLK-6-SEL_CLOCK_SRC : Synchronization source [chars][chars] is selected by selection process(T0) to synchronize the system and generate [chars] output[chars]

Explanation Synchronization source selection process has selected source q receive clock to synchronize the system and generate T0(transmit SEC clock). T0 clock is used as TX clock on all participating slots.

Recommended Action No action is required.

%NETCLK-6-SEL_T4_CLOCK_SRC : Synchronization source [chars] is selected by selection process to synchronize the system and generate T4([chars]) output[chars]

Explanation Synchronization source selection process for T4(external interface) has selected source q receive clock to synchronize external interface transmit clock.

Recommended Action No action is required.

%NETCLK-6-ENTER_HOLDOVER : System Internal synchronization source is selected.

Explanation System Internal synchronization source Internal is selected as all other nominated synchronization source are not valid for Synchronization selection process.

Recommended Action No action is required.

%NETCLK-6-INV_QL : invalid QL [chars] received for [chars] on network option [chars].

Explanation The platform has notify RP the clock quality of an input source. But the value appears to be invalid based on the current configured network option.

Recommended Action No action is required.

%NETCLK-4-FAIL : The Network Clock protocol has encountered the error: [chars].

| | |
|---------------------------|--|
| Explanation | The protocol has run into a failure condition. The reason should be given in the parenthesis. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(show network-clock synchronization and show network-clock synchronization detail and show module) |

%NETCLK-4-PD_REG : [chars] [dec]

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

%NETCLK-6-QL_CHANGE : Input QL for [chars] is [chars]

| | |
|---------------------------|---|
| Explanation | The input QL used for a network-clock input changed |
| Recommended Action | No action is required. |

%NETCLK-3-ESMC_EVENT_CREATE_FAIL : Failed to create ESMC event.

| | |
|---------------------------|--|
| Explanation | Failed to create an ESMC event to be queued. |
| Recommended Action | No action is required. |

%NETCLK-3-ESMC_EVENT_ENQUEUE_FAIL : Failed to enqueue ESMC event.

| | |
|---------------------------|---|
| Explanation | Failed to add an ESMC event to the event queue. |
| Recommended Action | No action is required. |

%NETCLK-3-ESMC_EVENT_QUEUE_INIT_FAIL : Failed to initialize ESMC event queue.

| | |
|---------------------------|--|
| Explanation | Failed to initialize the ESMC event queue. |
| Recommended Action | No action is required. |

%NETCLK-3-ESMC_EVENT_QUEUE_ALLOC_FAIL : Failed to allocate memory for ESMC event queue.

Explanation Failed to allocate memory for the ESMC event queue.**Recommended Action** No action is required.

NETWORK_CLOCK_SYNCHRONIZATION

%NETWORK_CLOCK_SYNCHRONIZATION-4-NETCLK_FAIL : Active network clock source [chars], priority [dec] failure

Explanation This warning message indicates that there has been a failure of active clock source**Recommended Action** No action required

%NETWORK_CLOCK_SYNCHRONIZATION-6-NETCLK_ACTIVE : Active network clock source is [chars], priority [dec]

Explanation This indicates the presence of an active network clock along with its priority**Recommended Action** This is an informational message only, no action required.

NETWORK_RF_API

%NETWORK_RF_API-6-IDB_TRANSITIONS_PENDING : Switchover terminated with [dec] transitions pending after there was no transition activity for [dec] seconds

Explanation The system terminated the switchover idb transitioning phase with a number of idb transitions still pending because no switchover related IDB transitions were logged during the specified time interval. Some connected routes may experience a temporary loss of traffic.**Recommended Action** No action is required.

%NETWORK_RF_API-3-FAILSENDMSGTOSTDBY : Failed to send [chars] message to standby for [chars], rc=[dec]

Explanation The specified synchronization message, which is an internal IPC message, could not be sent to the standby unit in the specified run-time module. The failure most likely occurred because of a software error. The numeric error code in the message output identifies the type of failure. The system state between the active and standby units might not be properly synchronized.

%NETWORK_RF_API-3-FAILSENDMSGTOSTDBY : Failed to send [chars] message to standby for [chars], rc=[dec]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-FAILSENDMSGTOACTIVE : Failed to send [chars] message to active for [chars], [chars]

Explanation The specified synchronization message, which is an internal IPC message, could not be sent to the active unit in the specified run-time module. The failure most likely occurred because of a software error. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-FAILDECODEDATADESC : Cannot decode data descriptor for [chars], descriptor type=[chars]

Explanation An internal data descriptor could not be decoded for synchronization for the interface or controller in the run-time module specified in the message output. The failure most likely occurred because of a software error. The descriptor type specified in the message output, identifies the type of descriptor the failure occurred with. The system state between the active and standby units might not be properly synchronized.

Recommended Action Gather system logs and error messages at both the active and the standby units. Issue the recommended show commands at both the active and the standby units. LOG_STD_SH_CMD_ACTION(show redundancy idb-sync-history)

%NETWORK_RF_API-3-NO_MSG_BUFFER : No message buffer for [chars]

Explanation A message data buffer that is used for state synchronization could not be obtained. An internal data structure could not be allocated for synchronization in the run-time module specified in the message output. The failure most likely occurred because of a software error or a lack of system memory. The system state between the active and standby units might not be properly synchronized.

%NETWORK_RF_API-3-NO_MSG_BUFFER : No message buffer for [chars]

Recommended Action If you determine that this condition was caused by a lack of system memory, reduce system activity to ease memory demands, or if conditions warrant, upgrade to a larger memory configuration. Otherwise, LOG_STD_SH_TECH_ACTION

%NETWORK_RF_API-3-NO_CHKPT_BUFFER : No checkpointing buffer for [chars], rc=[dec]

Explanation A message data buffer that is used for state synchronization could not be obtained. An internal data structure could not be allocated for synchronization in the run-time module specified in the message output. The return code that is specified in the message output identifies the type of failure. The failure most likely occurred because of a software error or a lack of system memory. The system state between the active and standby units might not be properly synchronized.

Recommended Action If you determine that this condition was caused by a lack of system memory, reduce system activity to ease memory demands, or if conditions warrant, upgrade to a larger memory configuration. Otherwise, LOG_STD_SH_TECH_ACTION

%NETWORK_RF_API-3-INVALID_MSG_RECEIVED : Invalid [chars] message received

Explanation A message that is used for state synchronization was not received correctly. An internal data structure for a message could not be retrieved. The failure most likely occurred because of a software error. The system state between the active and standby units might not be properly synchronized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-INVALID_CHKPT_STATUS_CODE : Invalid checkpointing status code received, rc=[dec]

Explanation An invalid checkpoint status code has been detected. An internal status code that is associated with checkpointing was found to be invalid. The return code that is specified in the message output identifies the invalid code that was detected. The failure most likely occurred because of a software error. The system state between the active and standby units might not be properly synchronized.

%NETWORK_RF_API-3-INVALID_CHKPT_STATUS_CODE : Invalid checkpointing status code received, rc=[dec]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-CLIENT_REGISTER_FAIL : Failed to register with [chars], rc =[dec]

Explanation A redundancy client could not be registered. An internal failure associated with client registration occurred in the run-time module specified in the message output. The return code that is specified in the message output identifies the type of failure that was detected. The failure most likely occurred because of a software error. The system state between the active and standby units might not be properly synchronized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-NO_RESOURCES : [chars]

Explanation A run-time module could not obtain the resources that are required to complete a task. The failure most likely occurred because of a software error or a lack of system memory. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized.

Recommended Action If you determine that this condition was caused by a lack of system memory, reduce system activity to ease memory demands, or if conditions warrant, upgrade to a larger memory configuration. Otherwise, LOG_STD_SH_TECH_ACTION

%NETWORK_RF_API-3-ISSU_REG_SES_INFO : Failed to register ISSU session information: [chars]

Explanation The system failed to register the ISSU session information required to complete version exchange between the active and standby units. The failure most likely occurred because of a software error. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized.

%NETWORK_RF_API-3-ISSU_REG_SES_INFO : Failed to register ISSU session information: [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-ISSU_UNREG_SES_INFO : Failed to register ISSU session information: [chars]

Explanation The system failed to unregister the ISSU session information required to complete version exchange between the active and standby units. The failure most likely occurred because of a software error. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-ISSU_START_NEGO_SES : Failed to start ISSU session: [chars]

Explanation The system failed to start the ISSU negotiation session required to complete version exchange between the active and standby units. The failure most likely occurred because of a software error. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-ISSU_MSG_TYPE_INCOMPAT : The active and standby ISSU message types are incompatible

| | |
|---------------------------|---|
| Explanation | A message that is used for state synchronization is deemed to be incompatible. An internal data structure for a message could not be retrieved. The failure most likely occurred because of a software error. The system state between the active and standby units might not be properly synchronized. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information. |

%NETWORK_RF_API-3-ISSU_TRANSFORM_FAIL : The ISSU message [chars] transformation failed: [chars]

| | |
|---------------------------|---|
| Explanation | A message that is used for state synchronization could not be transformed correctly. An internal data structure for a message could not be retrieved. The failure most likely occurred because of a software error. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information. |

%NETWORK_RF_API-3-ISSU_MSG_MTU_INVALID : The ISSU message MTU is invalid: [chars]

| | |
|---------------------------|---|
| Explanation | A message buffer size that is used for state synchronization was found to be invalid. An internal data structure for a message could not be retrieved. The failure most likely occurred because of a software error. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information. |

%NETWORK_RF_API-3-CHEKPT_ENTITY_FAIL : A checkpointing entity [chars] operation failed, rc=[dec]

Explanation An internal operation that is associated with checkpointing failed. The return code that is specified in the message output identifies the type of failure. The failure most likely occurred because of a software error. The system state between the active and standby units might not be properly synchronized.

Recommended Action Issue 'show checkpoint entities' and 'show checkpoint clients' to determine the problem

NIF_MGR**%NIF_MGR-6-PORT_CONN_READY : [chars] on front side stack link [dec] connection is READY.**

Explanation A port associated with a front side stack link has a ready connection.

Recommended Action No action is required

%NIF_MGR-6-PORT_CONN_PENDING : [chars] on front side stack link [dec] connection is PENDING.

Explanation A port associated with a front side stack link has a pending connection.

Recommended Action No action is required

%NIF_MGR-6-PORT_CONN_ERR : [chars] on front side stack link [dec] connection is in ERR-DISABLE: [chars]

Explanation A port associated with a front side stack link has reached err-disable state.

Recommended Action No action is required

%NIF_MGR-6-PORT_CONN_TIMEOUT : [chars] on front side stack link [dec] connection has TIMEOUT: [chars]

Explanation A port associated with a front side stack link has disconnected connection.

Recommended Action No action is required

%NIF_MGR-6-PORT_CONN_DISCONNECTED : [chars] on front side stack link [dec] connection has DISCONNECTED: [chars]

Explanation A port associated with a front side stack link has disconnected connection.

%NIF_MGR-6-PORT_CONN_DISCONNECTED : [chars] on front side stack link [dec] connection has DISCONNECTED: [chars]

Recommended Action No action is required

%NIF_MGR-6-PORT_LINK_UP : [chars] on front side stack link [dec] is UP.

Explanation A port associated with a front side stack link has come up.

Recommended Action No action is required

%NIF_MGR-6-PORT_LINK_DOWN : [chars] on front side stack link [dec] is DOWN.

Explanation A port associated with a front side stack link has come up.

Recommended Action No action is required

%NIF_MGR-6-STACK_LINK_UP : Front side stack link [dec] is UP.

Explanation A port associated with a front side stack link has come up.

Recommended Action No action is required

%NIF_MGR-6-STACK_LINK_DOWN : Front side stack link [dec] is DOWN.

Explanation A port associated with a front side stack link has come up.

Recommended Action No action is required

%NIF_MGR-6-PORT_CONNECTION_STATUS_CHANGE : PORT:[chars] changed state from [chars] to [chars].

Explanation FSS Stack Port status change message.

Recommended Action No action is required

%NIF_MGR-6-DAD_RECOVERY_MODE : Dual Active detected: Switch going into recovery mode [chars].

Explanation Dual Active detected print on console.

%NIF_MGR-6-DAD_RECOVERY_MODE : Dual Active detected: Switch going into recovery mode [chars].

Recommended Action This switch need to be reloaded once user finishes debugging

%NIF_MGR-6-DAD : Dual Active detected: [chars]

Explanation Dual Active detected print on console.

Recommended Action No action. Action is only after recovery mode

%NIF_MGR-6-DAD_RECOVERY_RELOAD_ALERT : Switch is in recovery mode, needs Reload now. [chars].

Explanation Switch is in recovery mode, needs Reload now

Recommended Action This switch need to be reloaded since some correction is noticed

%NIF_MGR-6-DOMAIN_NUMBER_MISMATCH : Stackwise virtual domain number mismatch on stackwise virtual link [dec]

Explanation A port associated with a stackwise virtual link is connected to a peer with a different domain number than the local switch

Recommended Action For the switch to form a stack please configure same domain numbers on both the switches

NIM_XXD

%NIM_XXD-3-DISK_REMOVAL : One or more disks in SPA ([chars]) in subslot [dec]/[dec] can not be detected. Please power down this SPA and insert disk(s).

Explanation Disks have been removed from SPA

Recommended Action Power down the SPA, insert disks and power up the SPA.

%NIM_XXD-3-DISK_ERROR : Error detected on disk [dec] in module [chars] in subslot [dec]/[dec]. [chars].

Explanation Disk error detected in the SPA (NIM-SSD/NIM-HDD). Refer to comment for details.

Recommended Action Back-up any data and replace the disk.

%NIM_XXD-5-DISK_MONITOR : Disk [dec] in module [chars] in subslot [dec]/[dec] is detected but monitoring is not available.

Explanation Monitoring of disk in SPA (NIM-SSD/NIM-HDD) is unavailable.

Recommended Action Add a database file with monitoring information for this disk model and manufacturer.

NMSP_SYSLOG

%NMSP_SYSLOG-5-NMSP_SSL_NOTICE : nmspd TLS notice: [chars]

Explanation This is an informational message.

Recommended Action No action required.

%NMSP_SYSLOG-3-NMSP_SSL_ERROR_DISCONNECT : nmspd TLS disconnection: [chars]

Explanation Remote CMX connection over TLS protocol had been dropped.

Recommended Action Check connectivity with CMX, CMX service status and AAA configuration.

%NMSP_SYSLOG-3-NMSP_SSL_ERROR_INTERNAL : nmspd internal error occured when handling TLS connection: [chars]

Explanation Internal eWLC error prevented successful establishment of CMX connection over TLS protocol

Recommended Action Check availability of the system resources of the eWLC controller: memory, open files, sockets. Contact TAC if issue persists

%NMSP_SYSLOG-3-NMSP_SSL_ERROR_CERT : nmspd TLS certificate error: [chars]

Explanation Error validating TLS certificate for incoming CMX connection

Recommended Action Check that certificates and SHA2 key are properly setup on eWLC. Contact TAC if issue persists.

%NMSP_SYSLOG-5-NMSP_HTTPS_NOTICE : nmspd HTTPS info: [chars]

Explanation This is an informational message.

Recommended Action No action required.

%NMSP_SYSLOG-5-NMSP_HTTPS_INTERFACE_NOTICE : nmspd HTTPS info: [chars]

Explanation Wireless management interface notification.**Recommended Action** No action required.

%NMSP_SYSLOG-3-NMSP_HTTPS_ERROR_CRYPT0 : nmspd HTTPS error: [chars]

Explanation Peer verification of CMX cloud service failed.**Recommended Action** Check that server certificate can be verified by root CA certificates in trustpool of crypto PKI.

%NMSP_SYSLOG-3-NMSP_HTTPS_ERROR_CONFIG : nmspd cloud service config error: [chars]

Explanation Configuration error prevented successful connection to CMX cloud service.**Recommended Action** Check configuration of cmx cloud service, e.g. server URL and token.

NTP

%NTP-6-RESTART : NTP process starts

Explanation NTP process has just started or re-started.**Recommended Action** No action is required.

%NTP-6-STOP : NTP process stops

Explanation NTP is disabled.**Recommended Action** Check if NTP is disabled by administrator purposely.

%NTP-4-UNSYNC : NTP sync is lost

Explanation NTP synchronization to its peer is lost.**Recommended Action** Check network connection to the peer, if NTP is running on the peer, if the peer itself is synchronized to a stable time source, and if NTP packets from the peer have passed validity tests specified in the RFC1305 etc.

%NTP-4-PEERUNREACH : Peer [IP_address] is unreachable

Explanation The NTP peer is unreachable.**Recommended Action** Check network connection to the peer and if NTP is running on the peer.

%NTP-6-PEERREACH : Peer [IP_address] is reachable

Explanation The NTP peer is reachable.**Recommended Action** No action is required.

%NTP-5-PEERSYNC : NTP synced to peer [IP_address]

Explanation NTP has synchronized the local clock to a new peer.**Recommended Action** No action is required.

%NTP-4-V6DISABLED : IPv6 is not running on interface [chars]. Cannot send NTP message.

Explanation Some NTP IPv6 specific commands are configured on an interface on which IPv6 is not running**Recommended Action** Enable IPv6 on the interface

OBJGROUP through OSC

- OBJGROUP
- OCE
- OCE_PUNT_PROCESS
- OIR
- OLM
- ONEP_BASE
- ONEP_LISP
- OOM
- OPENDNS_PROXY

- OSC

OBJGROUP

%OBJGROUP-3-QFAIL : Failed to perform queue operation '[chars]'

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

%OBJGROUP-3-CREATEFAIL : Failed to create/initialize internal data structures

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

%OBJGROUP-3-CLASSMAP : Failed to perform classmap filter [chars] operation

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

%OBJGROUP-4-BADREFCNT : Bad reference counter classmap '[chars]' sgtid [int] filter [int]

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

%OBJGROUP-4-INVALIDFILTER : Invalid filter type [int] for classmap '[chars]'

| | |
|--------------------|--|
| Explanation | Filter type for match statement was unknown/invalid. |
|--------------------|--|

%OBJGROUP-4-INVALIDFILTER : Invalid filter type [int] for classmap '[chars]'

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

%OBJGROUP-4-EINVAL : Unexpected input value

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

%OBJGROUP-4-BADCHILD : Object-group '[chars]' has bad child '[chars]'

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

%OBJGROUP-4-BADCLASSMAP : Internal match structure points to invalid class-map '[chars]'

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

%OBJGROUP-4-BADMATCH : Invalid internal match structure in class-map '[chars]' type [int]

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

%OBJGROUP-4-BADOG : Reference to non-existent object-group '[chars]'

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

%OBJGROUP-4-INVALIDCMD : Invalid subcommand [int]

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

%OBJGROUP-4-TOOMANYSGT : Exceeded maximum allowed SGT's ([int]) in a class-map group-object match statement

| | |
|---------------------------|--|
| Explanation | The cumulative number of SGTs in a class-map match statement has exceeded the maximum allowed. The number of SGTs includes those in object-groups as well as child object-groups within the heirarchy. |
| Recommended Action | Limit the number of SGTs in the object-group heirarchy referenced by the class-map match statement |

OCE**%OCE-3-OCE_SET_WRONG_PATH : Attempting to add an oce to the set contributed by path/list [IPv6 address]/[IPv6 address] while set set belongs to [IPv6 address]**

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

%OCE-3-QUEUE_UNLOCK : Failed to [chars] unlock[chars] for [chars] oce [IPv6 address]

| | |
|--------------------|---|
| Explanation | Failed to enqueue a unlock for an oce, this may lead to a memory leak |
|--------------------|---|

%OCE-3-QUEUE_UNLOCK : Failed to [chars] unlock[chars] for [chars] oce [IPv6 address]

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

%OCE-3-OCEDEPDUMP : [chars]

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

%OCE-3-UNINITIALIZED_VECTOR : Improperly initialized [chars] vector in [chars] OCE bundle [IPv6 address], packet dropped

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

%OCE-3-MISSING_HANDLER_FOR_SW_OBJ : Missing handler for '[chars]' function

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

%OCE-3-MISSING_HANDLER_FOR_SW_OBJ_TYPE : Missing handler for '[chars]' function for type [chars]

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

%OCE-3-OCE_CHANGED_BY_APPLY_FUNCTION : Target OCE [IPv6 address] changed to [IPv6 address] by apply function [IPv6 address]

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

%OCE-3-UNEXPECTED_SW_OBJ_TYPE : SW_OBJ handle/type mismatch; expecting oce type [chars], found [dec]

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

%OCE-3-OCE_FWD_STATE_HANDLE : Limit of oce forward state handle allocation reached; maximum allowable number is [int]

| | |
|---------------------------|---|
| Explanation | Did not store the reinject forwarding state handle, as the maximum number of handles are already in use |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%OCE-3-OCE_FWD_STATE_HANDLE_INIT : Failed to initialize a stack of reusable forward state handles; at element [int], initial stack size is [int] elements

| | |
|---------------------------|---|
| Explanation | Could not allocate enough forwarding state handles for initial handle reuse |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%OCE-3-UNEXPECTED_DISP_TYPE : Unexpected disposition type is encountered; expecting disposition types are [chars], found [chars]

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

%OCE-3-DECREASE_ZERO_REFCOUNT : Try to decrease zero refcount for [chars] oce [IPv6 address]

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

%OCE-3-INTERRUPT_LEVEL_LAST_LOCK : Try to remove last lock for [chars] oce [IPv6 address] at interrupt

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

%OCE-3-GENERAL : [chars]

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

%OCE-3-LOOP : A loop in the OCE chain has been detected at: [chars][IPv6 address]

| | |
|--------------------|---|
| Explanation | A loop in the OCE chain has been detected |
|--------------------|---|

%OCE-3-LOOP : A loop in the OCE chain has been detected at: [chars][[IPv6 address]]

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

%OCE-3-EXCEED_OCE_COUNTER_LIMIT : Exceeded OCE push counter limit (funcs:[IPv6 address] counter:[IPv6 address])

Explanation At most OCE_MAX_COUNTERS oce counters can be added because of design restrictions.

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

OCE_PUNT_PROCESS

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

Explanation Resource Failure: %s %d

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

%OCE_PUNT_PROCESS-3-LABEL_CACHE_INVALID : [chars]

Explanation MPLS label cache was invalid, failed to handle exception

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

OIR**%OIR-6-REMCARD : Card removed from slot [dec], interfaces disabled**

Explanation The OIR facility detected the removal of a processor from the slot number specified in the error 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.

%OIR-6-INSCARD : Card inserted in slot [dec], interfaces administratively shut down

Explanation The OIR facility detected a newly inserted processor. The interfaces associated with that processor 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.

%OIR-3-LONGSTALL : Long bus stall ([int] ms), check for improperly seated cards

Explanation An online insertion or removal of an interface processor card has stalled the backplane bus for longer duration than expected.

Recommended Action Make sure all interface processor cards are inserted or removed.
LOG_STD_ACTION_ERR

%OIR-4-NOEOIR : [chars] [chars] version [int].[int] not capable of EOIR

Explanation This message indicates that this card is capable of Online Insertion and Removal (OIR) hot-swapping but is not capable of Extended Online Insertion and Removal (EOIR). Though no damage would occur to the hardware, insertion or removal of the card will cause a CBUS complex restart, which would be disruptive to traffic on other cards in the system.

Recommended Action Try to restrict insertion or removal of this card to times when a CBUS complex restart will be least disruptive. Or upgrade the card to the latest revision which supports EOIR.

%OIR-3-SEATED : Insert/removal failed for slot [dec], check card seating

Explanation The OIR facility detected an incorrectly seated card, causing the insertion or removal of this card to fail.

Recommended Action Reseat the card in the indicated slot.

%OIR-3-CRASH : The module in slot [dec] has crashed

| | |
|---------------------------|--|
| Explanation | The module in the slot indicated has crashed and will be rebooted by the supervisor. |
| Recommended Action | Collect the crashinfo file from the crashed module and contact support. |

OLM

%OLM-3-ILLEVT : State [chars]; Event [chars]

| | |
|---------------------------|--|
| Explanation | An LMP state machine has encountered an event that is not legal or allowed in the current state. |
| Recommended Action | Write down the state and the event and call your Cisco technical support representative for assistance |

%OLM-5-LSUMBADTEL : Invalid TE Link ID [int] in Link Summary message

| | |
|---------------------------|---|
| Explanation | A Link Summary or Link Summary Ack or Link Summary Nack message has been received with bad TE Link ID. The sending node probably doesn't have LMP configured correctly. |
| Recommended Action | Locate the neighbor from which the LMP message with invalid TE Link ID was received and enter show ip olm command and make sure that the port ID mappings between the two nodes are correct |

%OLM-5-LMPNOIPCC : Internal error: Couldn't find IPCC to send LMP msg; msg type : [int]

| | |
|---------------------------|---|
| Explanation | This is generally caused by race conditions wherein an LMP message is received from a neighbor before the first control channel goes UP [locally]. This conditions usually happens when a node reboots. |
| Recommended Action | If the problem persists even after the node has completed initialization, enter sho ip olm command to find the LMP configuration and use the debug ip lmp packets and debug ip lmp generic command to gather additional context type information and call Cisco technical assistance. |

%OLM-3-LMPNONBR : Internal error: Couldn't find neighbor while [chars]

| | |
|---------------------------|---|
| Explanation | An LMP processing that requires to access information about the neighbor has found that no such neighbor exists. This could be due to internal error. |
| Recommended Action | Turn on generic and packet level debugging using the command, debug ip lmp and gather LMP configuration using the command, show ip olm and gather the displayed information and contact Cisco technical assistance. |

%OLM-5-LMPUNKSRC : LMP rcvd msg from unknown src ip 0x[IP_address], link %

| | |
|---------------------------|--|
| Explanation | An LMP message has been received from a neighbor that we don't know about. This could be due to the fact that the neighbor in question has not yet been configured on this node. |
| Recommended Action | Locate the problem neighbor using the IP address and enter a show ip olm command; gather the displayed info and contact Cisco technical assistance. |

%OLM-4-LMPINVTLV : Invalid TLV Length [int] in LMP msg; remaining size [int]

| | |
|---------------------------|---|
| Explanation | An LMP message has been received with invalid TLV length. This suggests that we have a broken LMP implementation on the sending neighbor. |
| Recommended Action | Locate the sending neighbor and turn on packet level debugging using the debug ip lmp packets command. On seeing an ill-formed LMP packet, gather displayed information and contact the Cisco technical assistance. |

%OLM-3-LMPNDFAIL : Failed to send LMP msg to [chars]

| | |
|---------------------------|---|
| Explanation | Attempt to send LMP control message has failed; this could be due to an internal error. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%OLM-5-LSUMMISMATCH : Link Summary parameter([chars]) mismatch

| | |
|---------------------------|---|
| Explanation | Port ID and other link summary parameters do not match with those on the neighbor in question. The neighbor and/or the local node is not properly configured. |
| Recommended Action | Enter the show ip olm command on the local as well as the neighbor node and make sure that the port IDs match. |

%OLM-4-LMPBADTLV : Bad TLV; type [int]

| | |
|---------------------------|---|
| Explanation | An LMP message has been received with invalid TLV type. This suggests that we have a broken LMP implementation on the sending neighbor |
| Recommended Action | Locate the sending neighbor and turn on packet level debugging using the debug ip lmp packets command. On seeing an ill-formed LMP packet, gather displayed information and contact the Cisco technical assistance. |

%OLM-4-LMPBADMSG : Bad LMP Msg; type [int]

| | |
|---------------------------|---|
| Explanation | An LMP message has been received with invalid message type. This suggests that we have a broken LMP implementation on the sending neighbor |
| Recommended Action | Locate the sending neighbor and turn on packet level debugging using the debug ip lmp packets command. On seeing an ill-formed LMP packet, gather displayed information and contact the Cisco technical assistance. |

%OLM-5-LMPNONBR1 : No such neighbor to assign

| | |
|---------------------------|--|
| Explanation | User attempted to assign interface to invalid neighbor |
| Recommended Action | Use show olm to find the correct neighbor name |

%OLM-2-LMPCONSIST : Internal consistency error; [chars]

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

%OLM-5-LMPMSGSEQ : LMP [chars] msg id [int] not 1+[int]

| | |
|---------------------------|---|
| Explanation | An LMP message has been received with message id that is not sequential within the Control channel or TE Link. This situation is not caused by the known cases that cause message id sequence to be broken, including local node reboot, neighbor node reboot and neighbor retransmission |
| Recommended Action | Enter the show ip olm stat command when this problem occurs and gather the information displayed and call the Cisco technical assistance. |

%OLM-3-LMPSDMISMATCH : Service Discovery: Attribute [chars] incompatible with neighbor [chars]

| | |
|---------------------------|---|
| Explanation | Specified service attribute does not match with neighbor. The neighbor and/or the local node may not be properly configured. |
| Recommended Action | Use the <code>show mpls uni lmp neighbor</code> command on the local as well as the neighbor node (where applicable), to determine the service attributes and modify the configuration, where feasible, to ensure that the attributes match |

%OLM-3-LMPSPORTFAILED : Service Discovery: Attributes for port [chars] incompatible with nbr [chars]

| | |
|---------------------------|--|
| Explanation | Port-level service attribute does not match with those of the neighbor. The neighbor and/or the local node may not be properly configured. |
| Recommended Action | Use the show mpls uni lmp neighbor command on the local as well as the neighbor node (where applicable), to determine the service attributes and modify the configuration, where feasible, to ensure that the port-level service attributes match |

ONEP_BASE**%ONEP_BASE-3-VERSION_ERR : [[chars]]: ONE-P version incompatible between client and network element. [chars]**

| | |
|---------------------------|---|
| Explanation | The ONE-P client service set version is incompatible with the one installed on the network element |
| Recommended Action | LOG_STD_SH_CMD_ACTION(Make sure the version running on the client side is compatible with the one installed on the network element) |

%ONEP_BASE-3-DISABLED_ERR : [[chars]]: [chars] is disabled.

| | |
|---------------------------|---|
| Explanation | The requested service set is in disabled state. All the service requests for that service set will be rejected. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(Make sure the service set is enabled. onep service set <name>) |

%ONEP_BASE-6-SS_ENABLED : ONEP: [chars]

| | |
|---------------------------|--|
| Explanation | The service set has been set to an enabled state. The features of the service set will be available for use. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(If the enablement was intentional, no action is required.) |

%ONEP_BASE-6-SS_DISABLED : ONEP: [chars]

| | |
|---------------------------|---|
| Explanation | The service set has been set to a disabled state. All service requests for that service set will be rejected. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(If the disablement was intentional, no action is required. If not, then enable the service set: onep service set <name>) |

%ONEP_BASE-3-DUPLICATE_ERR : [[chars]]: Requested entity [chars] already exists.

| | |
|--------------------|--|
| Explanation | The connection request to the network element already exists |
|--------------------|--|

%ONEP_BASE-3-DUPLICATE_ERR : [[chars]]: Requested entity [chars] already exists.

| | |
|---------------------------|--|
| Recommended Action | LOG_STD_SH_CMD_ACTION(Make sure the uniqueness of the application name. One session per application is allowed on a network element.) |
|---------------------------|--|

%ONEP_BASE-3-AUTHEN_ERR : [[chars]]: Authentication/authorization failed. [chars]

| | |
|---------------------------|---|
| Explanation | The session authentication has failed |
| Recommended Action | LOG_STD_SH_CMD_ACTION(Check user's credentials are matched against the AAA/local users configured on the Netwk Element.) |

%ONEP_BASE-3-BUSY_ERR : [[chars]]: The requested resource is currently busy. [chars].

| | |
|---------------------------|---|
| Explanation | The usage of the resource has exceeded the configured threshold value |
| Recommended Action | LOG_STD_SH_CMD_ACTION(Check the current resource usage and configured resource threshold. cpu threshold rising <value> falling <value> interval <seconds> Retry the operation if resource usage is below the threshold.) |

%ONEP_BASE-3-SESSION_ERR : [[chars]]: ONEP session maximum is exceeded. [chars].

| | |
|---------------------------|--|
| Explanation | The application session has exceeded the configured maximum |
| Recommended Action | LOG_STD_SH_CMD_ACTION(Check the configured session maximum value, and adjust accordingly. >session max <value> Retry the session establishment or adjust the configured session maximum.) |

%ONEP_BASE-3-STARTUP_ERR : [[chars]]: Start up ONEP failed. [chars].

| | |
|---------------------------|--|
| Explanation | Fail to start ONEP due to error |
| Recommended Action | LOG_STD_SH_CMD_ACTION(Check transport is configured correctly or reboot the device) |

%ONEP_BASE-4-CLEAR_TEXT_TRANSPORT_WARN : [[chars]]: Clear text transport being enabled. This is not recommended for production environment. [chars]

| | |
|---------------------------|---|
| Explanation | Clear text transport being enabled. This is not recommended for production environment. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(Please configure secure transport, such as TLS.) |

%ONEP_BASE-6-HISTORY : [chars]

| | |
|---------------------------|--|
| Explanation | This syslog message is used to display onePK history messages when the 'history syslog' onep command is enabled. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(No action is required. Use 'no history syslog' at the onep configuration prompt to turn off this logging if desired.) |

%ONEP_BASE-6-CONNECT : [[chars]]: ONEP session [chars] has connected.

| | |
|---------------------------|---|
| Explanation | A new ONEP session has been established with network element. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(No action is required if this is an authorized session.) |

%ONEP_BASE-6-RECONNECT : [[chars]]: ONEP session [chars] has reconnected.

| | |
|---------------------------|---|
| Explanation | ONEP session has been reconnected after being disconnected temporarily. This disconnect can happen due to intermittent network connectivity issues. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(No action is required if this is an authorized session.) |

%ONEP_BASE-6-DISCONNECT : [[chars]]: ONEP session [chars]

| | |
|---------------------------|---|
| Explanation | ONEP session has been disconnected. A disconnect can happen when application has finished execution or there was a problem during execution including issue with network transport. If reconnect timer is configured, Network Element will wait for application to reconnect within configured time before cleaning up session resources. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(No action is required if it is a expected disconnected. If reconnect timer is configured, session will wait for application to attempt reconnect request Use show tech-support onep to collect logs from Network Element) |

ONEP_LISP

%ONEP_LISP-3-DISABLED_ERR : [[chars]]: [chars] is disabled.

| | |
|---------------------------|---|
| Explanation | The requested service set is in disabled state. All the service requests for that service set will be rejected. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(Make sure the service set is enabled. onep service set lisp) |

OOM**%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. |

%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. |

OPENDNS_PROXY**%OPENDNS_PROXY-2-OPENDNS_MSG_PROXYINIT_FAILURE : UMBRELLA - Failed to register IPC message handler, result code [int]**

| | |
|---------------------------|---|
| Explanation | QFP Umbrella feature failed to register an IPC message handler for communication with control plane. This will cause the feature not to function. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%OPENDNS_PROXY-3-OPENDNS_MSG_PROXY_UNKNOWN_IPCMMSG : UMBRELLA - Received an unknown type (code [int]), IPC message

| | |
|---------------------------|--|
| Explanation | QFP Umbrella feature received an unknown message from another layer of Umbrella feature's software stack. |
| 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 output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%OPENDNS_PROXY-3-OPENDNS_MSG_PROXY_INVALID_MSGLEN : UMBRELLA - Received an invalid length IPC message

Explanation QFP Umbrella feature received an incorrect length of IPC message from another layer of Umbrella feature's software stack, m_enum %d, m_subtype %d, m_len %d, m_flags 0x%x, m_source %d.

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

%OPENDNS_PROXY-3-OPENDNS_MSG_PROXY_ALLOC_FAILURE : UMBRELLA - Failed to get [int] bytes space for IPC reply message

Explanation QFP Umbrella feature detected buffer allocation failure while sending reply to a message from another layer of Umbrella feature's software stack.

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

%OPENDNS_PROXY-3-OPENDNS_MSG_PROXY_OPENREPLY_FAIL : UMBRELLA - Failed to open reply message part of IPC packet

Explanation QFP Umbrella feature failed to open message part of IPC packet while sending a reply to another layer of Umbrella feature's software stack.

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

%OPENDNS_PROXY-3-OPENDNS_MSG_PROXY_IPCSEND_FAIL : UMBRELLA - Failed to send IPC message, result code [dec]

Explanation QFP Umbrella feature failed to send IPC message to another layer of Umbrella feature's software stack.

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

%OPENDNS_PROXY-3-OPENDNS_MSG_PROXY_DEBUG_REG_FAILED :

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

OSC**%OSC-3-DCDI : DATACORRUPTION-DATAINCONSISTENCY: [chars]**

| | |
|---------------------------|---|
| Explanation | Software has detected that some internal data structures may be corrupt. This may lead to unpredictable device operation |
| Recommended Action | Copy the error message exactly as it appears on the console or in the in the system log, and report it your technical support representative. |

OTNMGR through PCMCIAFS

- OTNMGR
- PAD
- PAGP_DUAL_ACTIVE
- PAM_UPDB
- PATHMGR
- PA_PKT
- PA_PKT_PROXY
- PBUF
- PCE
- PCMCIAFS

OTNMGR**%OTNMGR-3-OTN_STATS_CREATE_IF_FAILED_TO_ALLOCATE : stats for interface index [dec] could not be created with status [dec]**

Explanation

%OTNMGR-3-OTN_STATS_CREATE_IF_FAILED_TO_ALLOCATE : stats for interface index [dec] could not be created with status [dec]

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%OTNMGR-3-OTN_STATS_CREATE_IF_FAIL : stats for interface index [dec] could not be created with status [dec]

Explanation

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%OTNMGR-3-OTN_STATS_DELETE_IF_FAIL : stats for interface index [dec] could not be deleted with status [dec]

Explanation

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

PAD

%PAD-3-GETLINE : Tty%, bad return code [dec] from x3_getline()

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears and report it to your technical support representative.

%PAD-2-PUTSETUP : Tty%, buffer already setup

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears and report it to your technical support representative.

%PAD-2-INTR : [chars] called at interrupt level [hex]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears and report it to your technical support representative.

PAGP_DUAL_ACTIVE**%PAGP_DUAL_ACTIVE-4-NO_CHNL_GROUP : Port [chars] channel group not present while [chars]**

Explanation Extraction of the channel group from a link has failed, but is expected to be present. This should not occur, and may affect functionality, depending on where it occurred.

Recommended Action This message should not be seen under normal operation. If it is appearing, it is an indication of a software bug. Enter the commands: <CMDBOLD>show switch virtual dual-active summary<NOCMDBOLD> <CMDBOLD>show switch virtual dual-active pagp<NOCMDBOLD> Retrieve the PAgP packet contents by entering the commands: <CMDBOLD>debug condition interface <INTFC><NOCMDBOLD> <CMDBOLD>debug pagp packet<NOCMDBOLD> and LOG_STD_SH_TECH_ACTION

%PAGP_DUAL_ACTIVE-3-ADD_TLV_FAIL : Too few bytes for [chars] TLV in PAgP (reqd. [dec], got [dec]) on port [chars]

Explanation The dual-active tlv could not be added to the PAgP packet due to too few bytes in the packet. PAgP dual-active detection may be disabled as a result.

Recommended Action Enter the commands: <CMDBOLD>show switch virtual dual-active summary<NOCMDBOLD> <CMDBOLD>show switch virtual dual-active pagp<NOCMDBOLD> Retrieve the PAgP packet contents by entering the commands: <CMDBOLD>debug condition interface <INTFC><NOCMDBOLD> <CMDBOLD>debug pagp packet<NOCMDBOLD> and LOG_STD_SH_TECH_ACTION

%PAGP_DUAL_ACTIVE-3-REGISTRY_ADD_ERR : Failure in adding to [chars] registry

Explanation Could not add a function to the registry

Recommended Action No action is required.

%PAGP_DUAL_ACTIVE-1-RECOVERY : PAgP running on [chars] triggered dual-active recovery: active id [enet] received, expected [enet] Switch is in recovery mode

Explanation Pagp detected dual-active scenario on specified interface and caused switch to go into recovery mode.

Recommended Action No action is required.

%PAGP_DUAL_ACTIVE-3-PROC_CREATE_FAILED : Unable to create process [chars]

Explanation Unable to create the specified process

%PAGP_DUAL_ACTIVE-3-PROC_CREATE_FAILED : Unable to create process [chars]

Recommended Action No action is required.

%PAGP_DUAL_ACTIVE-3-OBJECT_CREATE_FAILED : Unable to create [chars]

Explanation Unable to create the specified managed object

Recommended Action No action is required.

%PAGP_DUAL_ACTIVE-3-RECOVERY_TRIGGER : PAgP running on [chars] informing virtual switches of dual-active: new active id [enet], old id [enet]

Explanation Pagp received new active id on specified interface, indicating virtual switches are in a dual-active scenario. Interface is informing virtual switches of this, which will cause one switch to go into recovery mode.

Recommended Action No action is required.

PAM_UPDB

%PAM_UPDB-3-NOPROMPT_READ : Error reading [chars] prompt: [chars]

Explanation The authentication module was unable to read the specified prompt file. The default prompt will be used.

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 output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PAM_UPDB-3-NOENVIRONMENT_SET : Error setting user in application environment: [chars]

Explanation The user has successfully authenticated, but the user information could not be saved to the application environment. The user session will not proceed.

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 output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

PATHMGR**%PATHMGR-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]**

Explanation For a request from upper PATHMGR software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.

Recommended Action This is normally a software issue. LOG_STD_RECUR_ACTION

%PATHMGR-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation For a request from upper PATHMGR software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.

Recommended Action This is normally a software issue. LOG_STD_RECUR_ACTION

%PATHMGR-2-IPC_INIT : IPC message handler registration failure, rc [int]

Explanation Registering an IPC message handler for the PATHMGR feature failed. This will cause the feature to not function.

Recommended Action This is normally a software issue. The consequences are that the PATHMGR feature will not function. LOG_STD_ACTION

PA_PKT**%PA_PKT-5-PA_DLIST_ALLOC_FAILED :**

Explanation Could not allocate segmented packet list header.

Recommended Action LOG_STD_ACTION

%PA_PKT-3-PA_VFR_CALLBACK_ARGS_ERROR : [chars] [hex]

Explanation PA vFR callback input args error.

Recommended Action LOG_STD_ACTION

%PA_PKT-3-PA_DLIST_MEM_REQ_FAILED :

| | |
|---------------------------|--|
| Explanation | Failure occurred when attempting to request segmented packet memory. |
| Recommended Action | LOG_STD_ACTION |

%PA_PKT-3-PA_MCST_REPL_DESC_OVERFL : [chars], MSGDEF_LIMIT_MEDIUM

| | |
|---------------------------|---|
| Explanation | PA M-Cast Gather descriptor list exceeded limit of 255 entries. |
| Recommended Action | LOG_STD_ACTION |

%PA_PKT-3-PA_MCST_GPM_ALLOC_FAILURE : [chars], MSGDEF_LIMIT_MEDIUM

| | |
|---------------------------|--|
| Explanation | PA M-Cast replication failed to allocate required GPM. |
| Recommended Action | LOG_STD_ACTION |

%PA_PKT-3-PA_MCST_DUP_FAILURE : [chars], MSGDEF_LIMIT_MEDIUM

| | |
|---------------------------|---|
| Explanation | PA M-Cast replication failed to allocate duplicate the requisite PA structures. |
| Recommended Action | LOG_STD_ACTION |

%PA_PKT-3-PA_PUT_FAILURE : [chars], MSGDEF_LIMIT_MEDIUM

| | |
|---------------------------|--|
| Explanation | The PA API layer failed to complete a requested WRITE into pkt memory. |
| Recommended Action | LOG_STD_ACTION |

%PA_PKT-3-PA_ADJUST_FIRST_FRAG_FAILURE : [chars], MSGDEF_LIMIT_MEDIUM

| | |
|---------------------------|--|
| Explanation | PA unaware feature doing pkt_head_clip more than first pbuf on PA pkt. |
| Recommended Action | LOG_STD_ACTION |

PA_PKT_PROXY

%PA_PKT_PROXY-3-PROXY_IPC_EXTENDED_PKT_MEM_INIT_FAILED : [dec]

Explanation Initialization of extended packet memory failed.**Recommended
Action** LOG_STD_ACTION

%PA_PKT_PROXY-3-PROXY_IPC_SEG_DLIST_MEM_INIT_FAILED : [dec]

Explanation Initialization of segmented packet dlist memory failed.**Recommended
Action** LOG_STD_ACTION

%PA_PKT_PROXY-3-PROXY_IPC_PBUF_MEM_INIT_FAILED : [dec]

Explanation Initialization of packet buffer header memory failed.**Recommended
Action** LOG_STD_ACTION

%PA_PKT_PROXY-3-PROXY_IPC_SEG_DLIST_EXTEND_FAILED : [dec]

Explanation Extending of segmented packet dlist memory failed.**Recommended
Action** LOG_STD_ACTION

%PA_PKT_PROXY-3-PROXY_IPC_PBUF_EXTEND_FAILED : [dec]

Explanation Extending of packet buffer header memory failed.**Recommended
Action** LOG_STD_ACTION

%PA_PKT_PROXY-3-PROXY_IPC_PKT_DRAM_EXTEND_FAILED : [dec]

Explanation Extending of extended packet memory failed.**Recommended
Action** LOG_STD_ACTION

%PA_PKT_PROXY-4-PROXY_IPC_UNKNOWN_SUBTYPE : [dec]

| | |
|---------------------------|-------------------------------|
| Explanation | Unknown IPC message detected. |
| Recommended Action | LOG_STD_ACTION |

%PA_PKT_PROXY-2-PROXY_IPC_INIT_FAILED : [dec]

| | |
|---------------------------|-----------------------------------|
| Explanation | Could not initialize IPC handler. |
| Recommended Action | LOG_STD_ACTION |

%PA_PKT_PROXY-3-PROXY_IPC_INVALID_MSG : [dec]:[dec] len [dec] flags [hex] source [dec]

| | |
|---------------------------|---------------------------------|
| Explanation | Invalid length for IPC message. |
| Recommended Action | LOG_STD_ACTION |

PBUF

%PBUF-3-PBUF_MEM_REQ_FAILED :

| | |
|---------------------------|---|
| Explanation | Failure occurred when attempting to request extended packet memory. |
| Recommended Action | LOG_STD_ACTION |

%PBUF-3-PBUF_MEM_INIT_FAILED : [chars]

| | |
|---------------------------|--|
| Explanation | Failure occurred when attempting to create memory resource |
| Recommended Action | LOG_STD_ACTION |

%PBUF-3-PBUF_PKT_MEM_CORRUPT : [hex] [hex]

| | |
|---------------------------|---|
| Explanation | Memory corruption detected while freeing extended packet memory |
| Recommended Action | LOG_STD_ACTION |

%PBUF-3-PBUF_SH_DRAM_CVT_FAIL : [chars]

| | |
|---------------------------|--|
| Explanation | An attempt to convert a shared DRAM buffer to non-shared failed. |
| Recommended Action | LOG_STD_ACTION |

PCE

%PCE-5-PCE_STATE : Connection to PCE server:[chars] [chars]

| | |
|---------------------------|---|
| Explanation | The connection to PCE server changed state. |
| Recommended Action | If the state change was unexpected check connectivity and state of the PCE server |

%PCE-5-PCE_ERR_RX : PCEP peer [chars] sent PCErr message - type: [int], value: [int]

| | |
|---------------------------|--------------------------------------|
| Explanation | PCErr message was received from peer |
| Recommended Action | Verify PCEP protocol operation |

PCMCIAFS

%PCMCIAFS-5-DIBERR : [dec] [chars]

| | |
|---------------------------|---|
| Explanation | The system cannot boot a image from the PCMCIA Flash disk because the Device Information Block is different. The Flash disk can be read by the router, but will require formatting by the router before an image can be booted from it. |
| Recommended Action | Follow any instructions provided in the error message. Before storing a image in the Flash disk and trying to boot from this device, enter the format command to format the flash disk from the router. Then copy the desired image to the Flash disk and then boot from this device. |

%PCMCIAFS-3-RESETErr : PCMCIA disk [dec] [chars]

| | |
|---------------------------|--|
| Explanation | PCMCIA disk could not be reset while the system is initiated reload. This will cause a transient disk error, disk timeout error, when the ROMMON initialization code tries to reads the DIB. This is a transient error and the system will be able to access the disk and continue normal operation. |
| Recommended Action | No action is required. |

%PCMCIAFS-5-DFS_CLOSE_ERR : Error during close of the file [chars]. [chars]

| | |
|---------------------------|---|
| Explanation | An error occurred during a file close operation. |
| Recommended Action | Enter the <i>fsck filesystem prefix</i> : command to check and attempt to repair the disk. If this does not fix the problem, format the disk. |

%PCMCIAFS-4-DFS_FSCK_ERR : Error while running fsck on the file [chars].

| | |
|---------------------------|---|
| Explanation | Fsck is running in a loop while walking through the cluster chain of a file and has aborted. |
| 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. |

PCM_TRACER through PLATFORM_ACT2

- [PCM_TRACER](#)
- [PERF_MEASURE](#)
- [PERF_MON](#)
- [PERF_MON_REACT](#)
- [PERF_TRAFFIC_INFRA](#)
- [PERF_TRAFFIC_REACT](#)
- [PKI](#)
- [PKTLOG](#)
- [PLATFORM](#)
- [PLATFORM_ACT2](#)

PCM_TRACER

%PCM_TRACER-3-PCMT_NO_DEST : No PCM Tracer capture destination configured.

| | |
|---------------------------|---|
| Explanation | Capture destination is required for starting the PCM Tracer. |
| Recommended Action | Configure capture destination before starting the PCM Tracer. |

%PCM_TRACER-3-PCMT_NO_PROFILE : No PCM Tracer profile configured.

| | |
|--------------------|--|
| Explanation | Capture profile is required for starting the PCM Tracer. |
|--------------------|--|

%PCM_TRACER-3-PCMT_NO_PROFILE : No PCM Tracer profile configured.

Recommended Action Configure capture profile before starting the PCM Tracer.

%PCM_TRACER-3-PCMT_NO_CAPTURE_TDM : No capture-tdm configured under profile [int].

Explanation Capture-tdm is required for starting the PCM Tracer.

Recommended Action Configure capture-tdm before starting the PCM Tracer.

%PCM_TRACER-3-PCMT_NO_CAPTURE_DURATION : No capture duration configured.

Explanation Capture duration is required for starting the PCM Tracer.

Recommended Action Configure capture duration before starting the PCM Tracer.

%PCM_TRACER-3-PCMT_NO_ACTIVE_CALL : No active calls to trace.

Explanation PCM Tracer can be applied only on active calls.

Recommended Action Make sure there is an active call before starting the PCM Tracer.

%PCM_TRACER-3-PCMT_RUNNING : A PCM Tracer session is currently running.

Explanation Can't execute this command since there is a PCM Tracer running now.

Recommended Action Make sure there is no PCM Tracer session running before execute this command.

%PCM_TRACER-3-PCMT_NOT_SUPPORTED : PCM Tracer is not supported on slot [int].

Explanation Can't execute this command on the slot number specified.

Recommended Action Refer to the user guide for which slot PCM Tracer is supported on.

%PCM_TRACER-3-PCMT_CHANNEL_TYPE_NOT_SUPPORTED : The channel/group type of ds0 [int] is not supported by PCM Tracer.

Explanation Can't execute this command on the ds0 number specified.

%PCM_TRACER-3-PCMT_CHANNEL_TYPE_NOT_SUPPORTED : The channel/group type of ds0 [int] is not supported by PCM Tracer.

Recommended Action Refer to the user guide for the channel/group type PCM Tracer supports.

%PCM_TRACER-6-PCMT_START : Starting PCM Trace on channel under profile [dec]

Explanation

Recommended Action

%PCM_TRACER-6-PCMT_STOP : Stopping PCM Trace on channel under profile [dec]

Explanation

Recommended Action

%PCM_TRACER-6-PCMT_STOP_FAIL : Fail to Stop PCM Trace on channel under profile [dec]

Explanation

Recommended Action

%PCM_TRACER-6-PCMT_STOP_RUNNING : Stop PCM capture

Explanation

Recommended Action

PERF_MEASURE

%PERF_MEASURE-2-CRIT_ERR : The Perf Measure protocol has encountered the critical error: [chars].

Explanation The protocol has run into a critical error. The reason should be given in the brackets.

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

%PERF_MEASURE-4-ISSU_INCOMPATIBLE : perf-measure-issu-compat: returned FALSE

| | |
|---------------------------|--|
| Explanation | The compatibility checking has failed |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%PERF_MEASURE-3-TRANSFORM_FAIL : PERF MEASURE ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])

| | |
|---------------------------|---|
| Explanation | The PERF MEASURE 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 PERF MEASURE state between the active device and the standby device is not identical. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>) |

%PERF_MEASURE-2-GET_BUFFER : PERF MEASURE ISSU client failed to get buffer for message. Error: [dec] ([chars])

| | |
|---------------------------|--|
| Explanation | The PERF MEASURE ISSU client failed to get buffer space for building a negotiation message. A negotiation message cannot be sent to the standby device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client) |

%PERF_MEASURE-3-SESSION_UNREGISTRY : PERF MEASURE ISSU client failed to unregister session information. Error: [dec] ([chars])

| | |
|---------------------------|--|
| Explanation | The PERF MEASURE ISSU client failed to unregister session information. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>) |

%PERF_MEASURE-2-INIT : PERF MEASURE ISSU client initialization failed to [chars]. Error: [dec] ([chars])

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

%PERF_MEASURE-2-SEND_NEGO_FAILED : PERF MEASURE ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation The PERF MEASURE 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 LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%PERF_MEASURE-2-SESSION_REGISTRY : PERF MEASURE ISSU client failed to register session information. Error: [dec] ([chars])

Explanation The PERF MEASURE 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 LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%PERF_MEASURE-3-INVALID_SESSION : PERF MEASURE ISSU client does not have a valid registered session.

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

Recommended Action LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%PERF_MEASURE-3-MSG_SIZE : PERF MEASURE ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation The PERF MEASURE ISSU client failed to calculate the MTU for the specified message. The PERF MEASURE ISSU client is not able to send the message to the standby device.

%PERF_MEASURE-3-MSG_SIZE : PERF MEASURE ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Recommended Action LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%PERF_MEASURE-2-SESSION_NEGO : PERF MEASURE ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation An ISSU-compliant client transitions through a series of internal states. The PERF MEASURE 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 LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

PERF_MON

%PERF_MON-3-LIST : Failed to [chars] list [chars]

Explanation A list operation failed. This could be caused by memory corruption

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

%PERF_MON-3-MEM : Memory [chars] failed - [chars]

Explanation Memory creation failed during the initialization

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

%PERF_MON-3-PARSER : [chars]

Explanation Parser failure. This could due to invalid command or corrupted csb

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

%PERF_MON-3-CHUNKCREATE : Failed to chunk create memory for [chars]

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

%PERF_MON-3-CHUNKDESTROY : Failed to chunk destroy memory for [chars]

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

%PERF_MON-3-CHUNKMALLOC : Failed to malloc chunk memory for [chars]

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

%PERF_MON-3-DEFRECCREATE : Creation of default-record [chars] failed - reason [chars]

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

%PERF_MON-3-RECSETPROP : Setting property for [chars] default-record failed - reason [chars]

| | |
|--------------------|--|
| Explanation | Failed to set properties for system defined default flow-records |
|--------------------|--|

%PERF_MON-3-RECSETPROP : Setting property for [chars] default-record failed - reason [chars]

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

%PERF_MON-3-RECSETKEY : Adding key fields for default-record [chars] failed - reason [chars]

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

%PERF_MON-3-RECSETNONKEY : Adding non-key fields for [chars] default-record failed - reason [chars]

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

PERF_MON_REACT**%PERF_MON_REACT-0-EMERGSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]**

| | |
|---------------------------|---|
| Explanation | A threshold crossing alarm is raised. The alarm severity is EMERGENT. system is unusable. |
| Recommended Action | No action is required. |

%PERF_MON_REACT-0-EMERGCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

| | |
|---------------------------|--|
| Explanation | A threshold crossing alarm is cleared. The alarm severity is EMERGENT. |
| Recommended Action | No action is required. |

%PERF_MON_REACT-1-ALERTSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is ALERT.**Recommended Action** No action is required.

%PERF_MON_REACT-1-ALERTCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is ALERT.**Recommended Action** No action is required.

%PERF_MON_REACT-2-CRITSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is CRITICAL.**Recommended Action** No action is required.

%PERF_MON_REACT-2-CRITCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is CRITICAL.**Recommended Action** No action is required.

%PERF_MON_REACT-3-ERRSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is ERROR**Recommended Action** No action is required.

%PERF_MON_REACT-3-ERRCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is ERROR**Recommended Action** No action is required.

%PERF_MON_REACT-2-INFOSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is INFO.

%PERF_MON_REACT-2-INFOSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Recommended Action No action is required.

%PERF_MON_REACT-2-INFOCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is INFO.
Recommended Action No action is required.

PERF_TRAFFIC_INFRA

%PERF_TRAFFIC_INFRA-3-MMONOBJINV : A mmon_obj does not exist for policy [chars] class [chars]

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

%PERF_TRAFFIC_INFRA-3-MMONOBJDUP : A mmon_obj already exists for policy [chars] class [chars]

Explanation A mmon obj already exists in the MMON DB under the same policy and class for CLASS_ADD
Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-NOPARENTMMONOBJ : Internal error, target has no parent mmon object

Explanation None valid pointer to mmon obj found in tgt obj for CLASS_REMOVE
Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-INV_REACT : react is not valid - [chars]

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

%PERF_TRAFFIC_INFRA-3-FIELDENA : Enable fnf field [chars] failed - [chars]

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

%PERF_TRAFFIC_INFRA-3-FNFPARSERENA : Enable flow monitor parser failed - [chars]

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

%PERF_TRAFFIC_INFRA-3-CHUNKCREATE : Failed to chunk create memory for [chars]

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

%PERF_TRAFFIC_INFRA-3-CHUNKDESTROY : Failed to chunk destroy memory for [chars]

| | |
|--------------------|--------------------------------------|
| Explanation | Unable to chunk destroy memory chunk |
|--------------------|--------------------------------------|

%PERF_TRAFFIC_INFRA-3-CHUNKDESTROY : Failed to chunk destroy memory for [chars]

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

%PERF_TRAFFIC_INFRA-3-CHUNKMALLOC : Failed to malloc chunk memory for [chars]

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

%PERF_TRAFFIC_INFRA-3-INV_TARGET : A target object does not exist - [chars]

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

%PERF_TRAFFIC_INFRA-3-NULLHIST : A history bucket does not exist

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

%PERF_TRAFFIC_INFRA-3-NULLFLOW : A flow does not exist

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

%PERF_TRAFFIC_INFRA-3-INVCMDB : Invalid cmd type [dec] to [chars]

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

%PERF_TRAFFIC_INFRA-3-INVMODE : Invalid performance-monitor configuration mode

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

%PERF_TRAFFIC_INFRA-3-INVCRIT : Invalid react criteria [dec] to [chars]

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

%PERF_TRAFFIC_INFRA-3-RESETMODE : Failed to reset csb vars

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

%PERF_TRAFFIC_INFRA-3-DEFRECCREATE : Creation of default-record [chars] failed - reason [chars]

| | |
|--------------------|--|
| Explanation | Failed to create system defined default flow-records |
|--------------------|--|

%PERF_TRAFFIC_INFRA-3-DEFRECCREATE : Creation of default-record [chars] failed - reason [chars]

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

%PERF_TRAFFIC_INFRA-3-RECSETPROP : Setting property for [chars] default-record failed - reason [chars]

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

%PERF_TRAFFIC_INFRA-3-RECSETKEY : Adding key fields for default-record [chars] failed - reason [chars]

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

%PERF_TRAFFIC_INFRA-3-RECSETNONKEY : Adding non-key fields for [chars] default-record failed - reason [chars]

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

%PERF_TRAFFIC_INFRA-3-MONITOR_CREATE : Failed to create Monitor at Metering layer. Error - [chars]

| | |
|--------------------|--|
| Explanation | Failed to create monitor at Metering layer for this policy. The error code provides the reason for failure. No statistics will be collected. |
|--------------------|--|

%PERF_TRAFFIC_INFRA-3-MONITOR_CREATE : Failed to create Monitor at Metering layer. Error - [chars]

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

%PERF_TRAFFIC_INFRA-3-MONITOR_DELETE : Failed to delete Monitor at Metering layer. Error - [chars]

| | |
|---------------------------|---|
| Explanation | Failed to delete monitor at Metering layer for this policy. The error code provides the reason for failure. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%PERF_TRAFFIC_INFRA-3-MONITOR_SYNC : Out of sync - [chars]

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

%PERF_TRAFFIC_INFRA-3-INVFIELDTYPE : Enable fnf field [dec] failed - invalid field type

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

%PERF_TRAFFIC_INFRA-3-INVMONITOR : The flow monitor pointer is invalid

| | |
|--------------------|---|
| Explanation | An internal error occurred. The performance-monitor monitor pointer saved in the common monitor is NULL |
|--------------------|---|

%PERF_TRAFFIC_INFRA-3-INVMONITOR : The flow monitor pointer is invalid

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

%PERF_TRAFFIC_INFRA-3-INV_COMMON_MONITOR : The common monitor ptr is invalid

Explanation An internal error occurred. The common monitor ptr saved in the performance-monitor monitor is NULL

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

%PERF_TRAFFIC_INFRA-3-INV_MONITOR_TYPE : The monitor type [dec] is invalid

Explanation An internal error occurred. The monitor type is out of the range

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

%PERF_TRAFFIC_INFRA-3-INV_POLICY_MAP : The retrieved policy map is invalide - [chars]

Explanation An internal error occurred. The policy map saved in csb is invalid

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

%PERF_TRAFFIC_INFRA-3-INV_ARG : The argument is not valid - [chars]

Explanation An internal error occurred. The argument for an internal API is not valid

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

%PERF_TRAFFIC_INFRA-3-CONV_FAILURE : Conversion failed - [chars]

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

%PERF_TRAFFIC_INFRA-3-CHUNK_INIT : Chunk is not initialized - [chars]

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

%PERF_TRAFFIC_INFRA-3-PROC_MSG : Failed to process received record - [chars]

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

%PERF_TRAFFIC_INFRA-3-MEMLEAK : Memory leak detected - [chars]

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

%PERF_TRAFFIC_INFRA-3-FDEF_NOTIFY : Failed to register PD flow definition [chars]

| | |
|--------------------|---|
| Explanation | The flow def received from ME or PD is NULL |
|--------------------|---|

%PERF_TRAFFIC_INFRA-3-FDEF_NOTIFY : Failed to register PD flow definition [chars]

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

%PERF_TRAFFIC_INFRA-3-EXP_ATTR : Failed to set flow attribute for exporter - [chars]

Explanation An error occurred when setting flow attribute use to transform match and collect metrics to export message

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

%PERF_TRAFFIC_INFRA-3-FDEF_TEMP : Invalid flow definition template - [chars]

Explanation The template was not initialized during system initialization

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

%PERF_TRAFFIC_INFRA-3-FLOW_EXCEED : The number of flows has exceeded 95%% of the configured maximum flow. [chars]

Explanation This is warning message if the flow size exceeds the maximum value

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

%PERF_TRAFFIC_INFRA-3-FLOW_NONEXCEED : The number of flows is below 85%% of the configured maximum flow. [chars]

Explanation This is info message if the flow size falls below the maximum value

%PERF_TRAFFIC_INFRA-3-FLOW_NONEXCEED : The number of flows is below 85%% of the configured maximum flow. [chars]

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

%PERF_TRAFFIC_INFRA-3-SIB_LINK : sib member [int] with [int], error [chars]

Explanation Failed to link two sibling members in the MMON PD

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

%PERF_TRAFFIC_INFRA-3-SIB_UNLINK : sib member [int] from [int], error [chars]

Explanation Failed to unlink two sibling members in the MMON PD

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

PERF_TRAFFIC_REACT

%PERF_TRAFFIC_REACT-0-EMERGSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is EMERGENT. system is unusable.

Recommended Action No action is required.

%PERF_TRAFFIC_REACT-0-EMERGCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is EMERGENT.

Recommended Action No action is required.

%PERF_TRAFFIC_REACT-1-ALERTSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is ALERT.

Recommended Action No action is required.

%PERF_TRAFFIC_REACT-1-ALERTCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is ALERT.

Recommended Action No action is required.

%PERF_TRAFFIC_REACT-2-CRITSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is CRITICAL.

Recommended Action No action is required.

%PERF_TRAFFIC_REACT-2-CRITCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is CRITICAL.

Recommended Action No action is required.

%PERF_TRAFFIC_REACT-3-ERRSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is ERROR

Recommended Action No action is required.

%PERF_TRAFFIC_REACT-3-ERRCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is ERROR

Recommended Action No action is required.

%PERF_TRAFFIC_REACT-2-INFOSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is INFO.

%PERF_TRAFFIC_REACT-2-INFOSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Recommended Action No action is required.

%PERF_TRAFFIC_REACT-2-INFOCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is INFO.

Recommended Action No action is required.

PKI

%PKI-3-KEY_CMP_MISMATCH : Key in the certificate and stored key does not match for Trustpoint-[chars].

Explanation Public key in the certificate is not the same as the stored key.

Recommended Action Make sure that the certificate public key and stored public key are the same.

%PKI-3-QUERY_KEY : Querying key pair failed.

Explanation Querying public key/private key using subject name failed

Recommended Action Resubmit enrollment request. Check the subject name.

%PKI-3-CERTRETFAIL : Certificate enrollment failed.

Explanation Certificate enrollment transaction failed due to internal error.

Recommended Action Contact CE.

**%PKI-6-CERT_INSTALL : [chars] Trustpoint : [chars] Issuer-name : [chars] Subject-name : [chars]
Serial-number: [chars] End-date : [chars]**

Explanation A previous certificate enrollment request was received by the Certificate Authority. It has issued the certificate, and sent back a copy

Recommended Action Informational message only. No action required.

%PKI-6-CERTPENDING : Enter manual authentication ...

| | |
|---------------------------|---|
| Explanation | CA server want to manually authenticate the router. |
| Recommended Action | Follow a manual authentication procedure. |

%PKI-6-CERTREJECT : [chars]

| | |
|---------------------------|--|
| Explanation | A previous certificate enrollment request was received by the Certificate Authority. It has rejected the enrollment request. |
| Recommended Action | Contact the Certificate Authority administrator. |

%PKI-6-PKCS12_EXPORT_SUCCESS : PKCS #12 Export from trustpoint [chars] was successfully Exported.

| | |
|---------------------------|--|
| Explanation | A PKCS #12 has been generated and successfully exported. |
| Recommended Action | No action required. Informational message |

%PKI-6-PKCS12_IMPORT_SUCCESS : PKCS #12 import in to trustpoint [chars] successfully imported.

| | |
|---------------------------|--|
| Explanation | A PKCS #12 has been successfully imported. |
| Recommended Action | No action required. Informational message |

%PKI-3-POLLCACERT : Polling CA certificate

| | |
|---------------------------|---------------------------------------|
| Explanation | Polling ca certificate. |
| Recommended Action | Check if CA or ldap server is online. |

%PKI-3-QUERYCACERT : Failed to query CA certificate.

| | |
|---------------------------|--|
| Explanation | Failed to query ca certificate from ca server. |
| Recommended Action | Use parser command cr ca auth and try again. |

%PKI-3-INVALIDCACERT : Failed to process CA certificate.

| | |
|--------------------|---|
| Explanation | Failed to process the ca certificate received from ca server. |
|--------------------|---|

%PKI-3-INVALIDCACERT : Failed to process CA certificate.

Recommended Action Use parser command cr ca auth and try again.

%PKI-3-POLLRACERT : Polling RA certificate

Explanation Polling ra certificate.

Recommended Action Check if CA or ldap server is online.

%PKI-3-POLLROUTERCERT : Polling Router certificate for [chars]

Explanation Polling router certificate.

Recommended Action Check if CA or ldap server is online.

%PKI-4-NOAUTOSAVE : Configuration was modified. Issue write memory to save new certificate

Explanation Auto-Enroll has obtained a new router key pair and certificate. However, the running configuration was previously modified.

Recommended Action Issue the write memory command to save the new certificate(s) and key(s).

%PKI-6-AUTOSAVE : Running configuration saved to NVRAM

Explanation Auto-Enroll has obtained a new router key pair and certificate, and has done an automatic write memory to save them.

Recommended Action No action required. Informational message

%PKI-4-NOSHADOWAUTOSAVE : Configuration was modified. Issue write memory to save new IOS CA certificate

Explanation IOS CA Rollover has generated a shadow CA key pair and certificate. However, the running configuration was previously modified.

Recommended Action Issue the write memory command to save the new certificate(s) and key(s).

%PKI-6-CERTRENEWMANUAL : Please renew the router certificate for trustpoint [chars]

| | |
|---------------------------|--|
| Explanation | Trustpoint certificate will expire soon, and should be renewed |
| Recommended Action | Obtain a new certificate from the Certificate Authority |

%PKI-6-CERT_RENEW_AUTO : Auto renewing router certificate of trustpoint [chars]

| | |
|---------------------------|---|
| Explanation | Trustpoint certificate will expire soon, and is being automatically renewed |
| Recommended Action | No action required. Informational message |

%PKI-6-SHADOWAUTOSAVE : Running configuration saved to NVRAM

| | |
|---------------------------|--|
| Explanation | IOS CA Rollover has generated a shadow CA key pair and certificate, and has done an automatic write memory to save them. |
| Recommended Action | No action required. Informational message |

%PKI-4-NOCONFIGAUTOSAVE : Configuration was modified. Issue write memory to save new IOS PKI configuration

| | |
|---------------------------|--|
| Explanation | IOS PKI APIs have generated new PKI configuration. However, the running configuration was previously modified. |
| Recommended Action | Issue the write memory command to save the new PKI configuration. |

%PKI-6-CONFIGAUTOSAVE : Running configuration saved to NVRAM

| | |
|---------------------------|---|
| Explanation | IOS PKI APIs have generated new PKI configuration, and has done an automatic write memory to save them. |
| Recommended Action | No action required. Informational message |

%PKI-6-CERTIFSEND : Could not send Certificate enrollment request to file system.

| | |
|---------------------------|--|
| Explanation | The certificate enrollment request could not be sent to file system. |
| Recommended Action | Verify the enrollment URL and that the router is able to write to the file system. |

%PKI-6-CERTIFSRECV : Could not receive router's Certificate from file system.

Explanation The router's certificate could not be received from file system.

Recommended Action Verify the enrollment URL and that the router is able to read from the file system.

%PKI-2-CERT_ENROLL_FAIL : Certificate enrollment failed for trustpoint [chars]. Reason : [chars]

Explanation Certificate enroll encounter fatal error

Recommended Action Contact the CA administrator.

%PKI-2-CERT_RENEW_FAIL : Certificate renewal failed for trustpoint [chars] Reason : [chars]

Explanation Certificate enroll encounter fatal error

Recommended Action Contact the CA administrator.

%PKI-4-CERT_ENROLL_CANCEL : Enrollment cancelled for trustpoint : [chars]

Explanation Certificate enroll cancelled by user

Recommended Action Contact the CA administrator.

%PKI-3-SOCKETSEND : Failed to send out message to CA server.

Explanation The failure is caused by http transaction.

Recommended Action Check http connection to the CA server

%PKI-3-INVALID_INPUT : The input to the parser command is not correct

Explanation The input to the parser command is not correct

Recommended Action Repeat the command.

%PKI-3-GETCARACERT : Failed to receive RA/CA certificates.

Explanation Encountered failure when parsing and processing CA/RA certificates

%PKI-3-GETCARACERT : Failed to receive RA/CA certificates.

Recommended Action Check the status, contact the CA administrator

%PKI-6-CS_DELETE_TP_KEY : Trustpoint and key deleted.

Explanation Trustpoint and key used by the Certificate Server are deleted.
Recommended Action No action required. Informational message.

%PKI-6-CS_DELETE : Certificate Server is deleted.

Explanation Certificate Server is deleted.
Recommended Action No action required. Informational message.

%PKI-6-CS_GRANT_AUTO_RA : Enrollment requests coming from known RAs will be automatically granted.

Explanation Enrollment requests coming from known RAs will be automatically granted.
Recommended Action No action required. Informational message.

%PKI-6-CS_GRANT_AUTO : All enrollment requests will be automatically granted.

Explanation All enrollment requests will be automatically granted.
Recommended Action No action required. Informational message.

%PKI-6-CS_GRANT_AUTO_CACERT : All rollover subordinate CA cert requests will be automatically granted.

Explanation All rollover subordinate CA cert requests will be automatically granted.
Recommended Action No action required. Informational message.

%PKI-4-CS_GRANT_AUTO_CACERT_FAILURE : A rollover request for a subordinate CA certificate cannot be auto granted.

Explanation A rollover request for a subordinate CA certificate cannot be authorized and the configured auto grant policy will be ignored. This request will be added to the CS server request queue but will need to be manually granted

Recommended Action Insure that the peer's current sub CA cert is valid.

%PKI-6-CS_GRANT_AUTO_RACERT : All rollover RA cert requests will be automatically granted.

Explanation All rollover RA cert requests will be automatically granted.

Recommended Action No action required. Informational message.

%PKI-6-CS_REJECT_AUTO : All enrollment requests will be automatically rejected.

Explanation All enrollment requests will be automatically rejected.

Recommended Action No action required. Informational message.

%PKI-3-CS_CRIT_STORAGE : Critical certificate server storage, [chars], is inaccessible, server disabled.

Explanation Critical certificate server storage is inaccessible, server disabled.

Recommended Action Make storage accessible, or re-configure the storage location

%PKI-4-CS_PUBLISH_STORAGE : Publish certificate server storage, [chars], is inaccessible.

Explanation Publish certificate server storage is inaccessible.

Recommended Action Make storage accessible, or re-configure the storage location

%PKI-6-AUTOENROLL_KEY_LOCKED : Auto-enroll failed - RSA keypair is locked

Explanation Auto-enroll attempted to generate a new RSA keypair. However the existing RSA keypair is locked so auto-enroll cannot proceed

Recommended Action Auto-enroll will retry the enrollment request Make sure the existing RSA keypair is unlocked before the next retry

%PKI-6-CS_ENABLED : Certificate server now enabled.

| | |
|---------------------------|--|
| Explanation | Certificate server now enabled. |
| Recommended Action | No action required. Informational message. |

%PKI-6-CS_DISABLED : Certificate server now disabled. Reason : [chars]

| | |
|---------------------------|--|
| Explanation | Certificate server now disabled. |
| Recommended Action | No action required. Informational message. |

%PKI-3-UNUSABLE_KEY_USAGE : Key-usage type '[chars]' for cert with serial number [chars] is not usable.

| | |
|---------------------------|---|
| Explanation | The given key-usage type is not usable by IOS. If seen during an import operation, this will likely cause the import to fail. Acceptable key-usage types should include Key-encipherment and/or digital-signature. Other key-usage types may be present, but will be ignored. |
| Recommended Action | Recreate the certificate with Key-encipherment, digital-signature, or both. |

%PKI-6-AUTOCERTFAIL : Certificate (re)enrollment failed. Delaying before retry

| | |
|---------------------------|---|
| Explanation | Automatic certificate enrollment or re-enrollment failed The router will retry in 6 hours or less depending on the expiration time of the router's certificate. |
| Recommended Action | Contact the CA administrator. |

%PKI-4-AUTOCERTFAILWARN : Certificate (re)enrollment failed. Delaying before retry

| | |
|---------------------------|--|
| Explanation | Automatic certificate re-enrollment failed. The router will retry in 6 hours or less depending on the expiration time of the router's certificate. Caution - Router's Certificate may expire soon. |
| Recommended Action | Contact the CA administrator. The router will retry. |

%PKI-3-AUTOCERTERR : Auto Certificate (re)enrollment failed. Cannot retry

| | |
|--------------------|---|
| Explanation | Automatic certificate re-enrollment failed. The router clock may not be set correctly. If the router has a certificate it may be expired. |
|--------------------|---|

%PKI-3-AUTOCERTERR : Auto Certificate (re)enrollment failed. Cannot retry

Recommended Action Check router clock is set correctly Make sure the router's cert has not expired

%PKI-3-CERTPENDERR : Failed to receive pending certificate during enrollment

Explanation The router's cert remains in a pending state after the maximum number of retries to enroll.

Recommended Action Contact the CA administrator. Then retry the enrollment.

%PKI-4-CERTIFICATE_INVALID_SUBJECT : Certificate has a missing or invalid subject name.

Explanation The certificate subject name attribute must be present and not empty OR The certificate subject alt name extension must be present and include at least one entry.

Recommended Action Examine the offending certificate and re-issue it with a proper subject name.

%PKI-3-CERTIFICATE_INVALID_EXPIRED : Certificate chain validation has failed. The certificate (SN: [chars]) has expired. Validity period ended on [chars]

Explanation The certificate validity period indicates that this certificate has expired

Recommended Action Check the system clock to see if its set correctly

%PKI-3-CERTIFICATE_INVALID_NOT_YET_VALID : Certificate chain validation has failed. The certificate (SN: [chars]) is not yet valid Validity period starts on [chars]

Explanation The certificate validity period indicates that this certificate is not yet valid

Recommended Action Check the system clock to see if its set correctly

%PKI-3-CERTIFICATE_INVALID : Certificate chain validation has failed.

Explanation The certificate is not valid

Recommended Action Check the system clock to see if its set correctly

%PKI-3-CERTIFICATE_REVOKED : Certificate chain validation has failed. The certificate (SN: [chars]) is revoked

Explanation The certificate has been revoked by the CA administrator.

Recommended Action Check the status, contact the CA administrator

%PKI-3-CERTIFICATE_INVALID_UNAUTHORIZED : Certificate chain validation has failed. Unauthorized

Explanation The certificate is valid but not authorized

Recommended Action Check the system clock to see if its set correctly

%PKI-4-CRLHTTPFETCHFAIL : CRL Request for trustpoint [chars] returned [dec] [chars]

Explanation The CRL fetch returned something other than success. If the trustpoint revocation-check includes the keyword 'none', the transaction will succeed. If revocation- checking is not optional, the transaction will fail.

Recommended Action Verify that the CRL is at the location specified in the Certificate, and that the server is operational. To see interaction between IOS and the CRL-server, please turn on **debug crypto pki transactions**

%PKI-6-CRLHTTPFETCHREDIR : CRL Request for trustpoint [chars] returned [dec] [chars] -> [chars]

Explanation The CRL fetch returned a redirect directive. This need not be an error, if the file exists at the redirected location.

Recommended Action If no other errors are seen, then the CRL was fetched from the new location, and no action is necessary. To see interaction between IOS and the CRL-server, please turn on **debug crypto pki transactions**

%PKI-3-CRL_FETCH_FAIL : CRL fetch for trustpoint [chars] failed Reason : [chars]

Explanation The CRL fetch returned something other than success.

Recommended Action Check the CRL manually to see it is correct. To see interaction between IOS and the CRL-server, please turn on **debug crypto pki transactions**

%PKI-3-CRL_INSERT_FAIL : CRL download for trustpoint [chars] has been discarded. Reason : [chars] Status : [dec] Status String : [chars]

Explanation Inserting and/or verifying the CRL failed. If the trustpoint revocation-check includes the keyword 'none', the transaction will succeed. If revocation- checking is not optional, the transaction will fail.

%PKI-3-CRL_INSERT_FAIL : CRL download for trustpoint [chars] has been discarded. Reason : [chars] Status : [dec] Status String : [chars]

Recommended Action Check the CRL manually to see it is correct. To see interaction between IOS and the CRL-server, please turn on **debug crypto pki transactions**

%PKI-4-HTTPREDIRECT : Maximum Redirection limit of [dec] exceeded, trying to retrieve URL [chars]

Explanation While fetching a document via http, there were too many redirections, and the operation has aborted. If the trustpoint revocation-check includes the keyword 'none', the transaction will succeed. If revocation- checking is not optional, the transaction will fail.

Recommended Action Verify that the CRL is at the location specified in the Certificate, and that the server is operational. To see interaction between IOS and the CRL-server, please turn on **debug crypto pki transactions**

%PKI-4-CRL_LDAP_QUERY : An attempt to retrieve the CRL from [chars] using LDAP has failed

Explanation An LDAP query was made to acquire the certificate revocation list, but the LDAP server did not respond with the requested information. This is a warning that only applies to the Distribution Point listed. It does not necessarily reflect the overall success or failure of CRL aquisition since a prior or subsequent retrieval of the CRL may have succeeded.

Recommended Action Check that the LDAP server is reachable and online. Verify that the CRL is at the requested location

%PKI-6-TRUSTPOOL_AUTO_UPDATE : Auto-trustpool update in progress from [chars].

Explanation One of the certificates in the trustpool will expire soon. An attemp to download a new trustpool bundle is in progress

Recommended Action Since an url has been configured that identifies the location to aquire the trustpool bundle, then no action is required.

%PKI-4-TRUSTPOOL_AUTO_UPDATE_DISABLED : Auto-trustpool update is disabled.

Explanation One of the certificates in the trustpool will expire soon. An attemp to download a new trustpool bundle cannot be attempted since a bundle location is not configured

Recommended Action Either configure the bundle location in the trustpool policy or manually update the trustpool bundle.

%PKI-4-TRUSTPOOL_EXPIRATION_WARNING : The Trustpool will expire in [chars].

| | |
|---------------------------|--|
| Explanation | One of the certificates in the trustpool will expire soon. If a bundle location is configured an auto update will be attempted at predetermined intervals. |
| Recommended Action | If a bundle location is configured in the trustpool policy no further action is required. Otherwise manual update of trustpool bundle may be needed. |

%PKI-6-ECDSA_CERT_WITH_SHA1 : User has accepted the security implication of using lesser hash strength(SHA1) for the Elliptic Curve Key present in the certificate

| | |
|---------------------------|---|
| Explanation | The SHA1 hash algorithm is not recommended for use with the elliptic curve key in this certificate. It is recommended that SHA2 or stronger hash algorithm be used. |
| Recommended Action | Informational message only. No action required. |

%PKI-6-PKI_CRL_DOWNLOADED : CRL download successful. Trustpoint : [chars] CDP-URL : [chars] Issuer : [chars]

| | |
|---------------------------|--|
| Explanation | CRL is downloaded and successfully inserted in the database. Notification for the same is sent to applications registered. |
| Recommended Action | Informational message only. No action required. |

%PKI-4-CERT_EXPIRY_WARNING : [chars] Certificate belonging to trustpoint [chars] will expire in [int] Days [int] hours [int] mins [int] secs at [chars]. Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] Auto-Renewal : [chars]

| | |
|---------------------------|--|
| Explanation | Warning to indicate that certificate is expiring soon. |
| Recommended Action | If auto-enrol feature is not configured, re-enrol the certificate manually. Else, check if any issues with auto-enrol. |

%PKI-1-CERT_EXPIRY_ALERT : [chars] Certificate belonging to trustpoint [chars] will expire in [int] Days [int] hours [int] mins [int] secs at [chars]. Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] Auto-Renewal : [chars]

| | |
|---------------------------|--|
| Explanation | Alert to indicate that certificate will expire in less than one week. |
| Recommended Action | If auto-enrol feature is not configured, re-enrol the certificate manually. Else, check if any issues with auto-enrol. |

%PKI-4-OCSP_SERVER_NO_RESP : The OCSP Server URL [chars] is not reachable or not responding

| | |
|--------------------|---|
| Explanation | The OCSP server is not reachable or is not responding to the OCSP request |
|--------------------|---|

%PKI-4-OCSP_SERVER_NO_RESP : The OCSP Server [chars] is not reachable or not responding

Recommended Action Check if the OCSP server is reachable and is receiving the OCSP request

%PKI-4-OCSP_SERVER_RESP_COMP : The OCSP Server [chars]: error:responder certificate is peer certificate

Explanation The OCSP responder certificate is peer certificate

Recommended Action Check if the configured OCSP server and responder OCSP server is same or not

%PKI-3-OCSP_RESPONSE_STATUS : OCSP response status failed Reason : [chars]

Explanation OCSP response status failed

Recommended Action Check the ocsip request or ocsip server configurations

%PKI-4-OCSP_SERVER_RESP_SIGN : The OCSP Server [chars]: error:responder invalid signature algorithm

Explanation The OCSP responder has differnt signature algorithm

Recommended Action Check if the configured and responder OCSP server same signature algorithm or not

%PKI-4-OCSP_SERVER_RESP_DECODE_FAIL : The OCSP Server [chars]: failed to decode OCSP response basic data

Explanation The OCSP response data decoding is failing

Recommended Action Check if the configured OCSP server response data

%PKI-4-OCSP_SERVER_CERT_VALIDATE : The OCSP Server [chars]: responder certificate validation failed

Explanation The OCSP server responder certificate validation failed

Recommended Action Check if the configured OCSP server responder certificate

%PKI-4-OCSP_SERVER_RESP_VARIFY : The OCSP Server [chars]: failed to verify OCSP response

Explanation The OCSP response verification failed

%PKI-4-OCSP_SERVER_RESP_VARIFY : The OCSP Server [chars]: failed to verify OCSP response

Recommended Action Check if the configured OCSP server response

%PKI-4-OCSP_SERVER_RESP_DECODE : The OCSP Server [chars]: failed to decode OCSP response data

Explanation The OCSP response data decoding is failing

Recommended Action Check if the configured OCSP server response data

%PKI-5-CERT_ENROLL_RETRY : Certificate (re)enrollment has failed and retry will happen for [dec] attempts

Explanation Automatic certificate re-enrollment failed. We are printing a consolidated message for the maximum number of retry attempts. The router will continue to retry depending on the expiration time of the router's certificate. The retry attempts will be either 999 (default) or as specified Caution - Router's Certificate may expire soon.

Recommended Action Contact the CA administrator. The router will retry.

%PKI-4-CERT_ENROLL_RETRY_FAIL : Certificate (re)enrollment has failed after [dec] attempts

Explanation Automatic certificate re-enrollment failed. Caution - Router's Certificate may expire soon.

Recommended Action Contact the CA administrator. Enrollment failed.

%PKI-4-ROUTER_CERT_EXPIRED : Router certificate expired, cannot re-enroll/retry for enrollment/re-enroll

Explanation Cannot re-enroll/retry for enroll/re-enroll. Caution - Router's Certificate has expired.

Recommended Action Enroll the router manually.

%PKI-4-TRUSTPOOL_DOWNLOAD_FAIL : Trustpool download requires [int] bytes, available free storage [int] bytes is insufficient

Explanation Trustpool download failed Free space in nvram is not sufficient to store Trustpool Certificates. Change the Trustpool policy for its storage

Recommended Action Change the storage policy for Trustpool

%PKI-6-TRUSTPOOL_DOWNLOAD_SUCCESS : Trustpool Download is successful

| | |
|---------------------------|---|
| Explanation | Trustpool Download is successful |
| Recommended Action | No action required. Informational message |

%PKI-4-TRUSTPOOL_DOWNLOAD_FAILURE : Trustpool Download failed

| | |
|---------------------------|---|
| Explanation | Failed to download the trustpool bundle |
| Recommended Action | Enable debugs and obtain the reason for failure |

%PKI-4-TRUSTPOOL_CERTIFICATE_SAVE_CHANGE : Downloaded Trustpool certificates present prior to image upgrade should be re-downloaded. Issue 'crypto pki trustpool import url <url>' to re-download the certificates.

| | |
|---------------------------|---|
| Explanation | Downloaded Trustpool certificates present prior to image upgrade should be re-downlaoded |
| Recommended Action | Before image upgrade, clean all the downloaded trustpool certificates. Import them again after image upgrade. |

%PKI-2-NON_AUTHORITATIVE_CLOCK : PKI functions can not be initialized until an authoritative time source, like NTP, can be obtained.

| | |
|---------------------------|---|
| Explanation | System clock is not valid. Update the system clock to start with PKI timers |
| Recommended Action | System clock must be configured/Updated. |

%PKI-6-AUTHORITATIVE_CLOCK : The system clock has been set.

| | |
|---------------------------|-----------------------------------|
| Explanation | System clock is valid. |
| Recommended Action | No action. Informational message. |

%PKI-6-CSR_FINGERPRINT : CSR Fingerprint MD5 : [chars] CSR Fingerprint SHA1: [chars]

| | |
|---------------------------|---------------------|
| Explanation | Fingerprint display |
| Recommended Action | Information message |

%PKI-6-CERT_ENROLL_AUTO : Auto initial enrollment for trustpoint [chars]

| | |
|---------------------------|--|
| Explanation | Trustpoint enrollment happening automatically. |
| Recommended Action | No action required. Informational message |

%PKI-6-CERT_ENROLL_MANUAL : Manual enrollment for trustpoint [chars]

| | |
|---------------------------|---|
| Explanation | Trustpoint enrollment triggered manually |
| Recommended Action | No action required. Informational message |

%PKI-6-CERT_REENROLL : Re-enrollment for trustpoint [chars]

| | |
|---------------------------|---|
| Explanation | Trustpoint re-enrollment triggered manually |
| Recommended Action | No action required. Informational message |

%PKI-3-HOSTNAME_RESOLVE_ERR : Failed to resolve HOSTNAME/IPADDRESS : [chars]

| | |
|---------------------------|---------------------------------------|
| Explanation | Unable to resolve hostname/ip-address |
| Recommended Action | Check network connectivity |

%PKI-3-OCSP_CONTENT_MISMATCH : ocs content mismatch

| | |
|---------------------------|--|
| Explanation | Expected content not matched with formed content |
| Recommended Action | Check ocs request |

%PKI-2-MEM_ALLOC_FAIL : Memory allocation failure. Number of bytes requested : [dec]

| | |
|---------------------------|---------------------------------|
| Explanation | Memory allocation failed |
| Recommended Action | Check memory left on the device |

%PKI-3-SOCKET_OPEN : Failed to open socket.

| | |
|--------------------|--------------------------------------|
| Explanation | The failure is caused by socket open |
|--------------------|--------------------------------------|

%PKI-3-SOCKET_OPEN : Failed to open socket.

Recommended Action Check tcp/socket debugging message

%PKI-3-SET_SOURCE_INTERFACE_FAIL : Failed to set source interface for [chars] ip address

Explanation Failed to set source interface

Recommended Action Check configured source interface for trustpoint

%PKI-3-SOCKET_BIND_FAIL_SOURCE_INTERFACE : Failed to bind the socket due to source interface ip : [chars]

Explanation Failed to bind socket with source interface

Recommended Action Check configured source interface for trustpoint

%PKI-3-SET_VRF_FAIL : Failed to set VRF : [chars]. VRF not configured

Explanation Failed to set VRF

Recommended Action Check configured VRF for trustpoint and set VRF

%PKI-3-SET SOCK_VRF_INTERFACE_FAIL : Failed to set VRF : [chars] to socket interface

Explanation Failed to set VRF to socket

Recommended Action Check configured VRF for trustpoint and set VRF

%PKI-3-SET_SOCKET_OPTION_FAIL : Failed to set socket option. Option : [chars]

Explanation Failed to set socket option

Recommended Action Enable socket debugs

%PKI-3-SOCKET_CONNECT_FAIL : Failed to connect to socket

Explanation Failed to connect socket

%PKI-3-SOCKET_CONNECT_FAIL : Failed to connect to socket

Recommended Action Enable socket debugs

%PKI-2-CA_SERVER_CERT_EXPIRED : [chars] server certificate expired. Cannot enable [chars] server

Explanation CA server certificate expired.

Recommended Action Reconfigure CA server

%PKI-2-CA_SERVER_LABEL_TOO_LONG : [chars] server name too long. Reconfigure server with name less than 13 characters.

Explanation CA server name too long.

Recommended Action Reconfigure CA server with less than 13 characters

%PKI-2-CA_SERVER_TP_NOT_PRESENT : [chars] server's Trustpoint not available. Check for the trustpoint config.

Explanation CA server's Trustpoint not available.

Recommended Action Check for CA server and Trustpoint configuration presence

%PKI-2-SERVER_TP_CREATE_FAIL : Not able to create [chars] server's Trustpoint. Check for CA server config's.

Explanation CA server's Trustpoint not created.

Recommended Action Check for CA server and Trustpoint configuration presence

%PKI-2-SERVER_KEY_NOT_PRESENT : Not able to find CS [chars]'s keypair label [chars]. Check whether keypair [chars] is available on device

Explanation CA server's key-pair not available.

Recommended Action Check for key-pair presence

%PKI-2-NON_AUTHORITATIVE_CLOCK_CA : CA server cannot be enabled due to non-authoritative system clock. Configure clock/Sync with NTP server.

Explanation System clock is not valid. Update the system clock to start CA server

Recommended Action System clock must be configured/Updated.

%PKI-2-CS_CERT_EXPIRED : Certificate server [chars] CA certificate expired. Regenerate CA certificate manually.

Explanation CS certificate expired.

Recommended Action Regenerate CS certificate.

%PKI-2-CS_CERT_GEN_FAIL : Certificate server [chars] CA certificate generation failed. Regenerate CA certificate manually.

Explanation Certificate Server disabled.

Recommended Action Regenerate CS certificate.

%PKI-2-CS_CERT_INVALID : Certificate server [chars] CA certificate invalid. Regenerate CA certificate manually.

Explanation CS certificate invalid.

Recommended Action Regenerate CS certificate.

%PKI-2-CS_SUBJECT_NAME_FAIL : Extracting subject name from Server certificate failed

Explanation Extraction of subject failed

Recommended Action Regenerate CS certificate.

%PKI-2-CS_ISSUER_NAME_INVALID : Invalid issuer_name in CS [chars] configuration

Explanation Invalid issuer-name in Certificate Server

Recommended Action Check certificate server configuration and re-configure.

%PKI-2-CS_CERT_NOT_PRESENT : Certificate server [chars]'s certificate not present.

| | |
|---------------------------|--|
| Explanation | Certificate server certificate not present |
| Recommended Action | Regenerate CS certificate. |

%PKI-3-ISSUER_NAME_NOT_BER : Issuer name is not BER

| | |
|---------------------------|---|
| Explanation | Issuer name is not BER. Check issuer-name |
| Recommended Action | Check issuer-name present/configured |

%PKI-3-SUBJECT_NAME_NOT_BER : Subject name is not BER

| | |
|---------------------------|---|
| Explanation | Subject name is not BER. Check subject-name |
| Recommended Action | Check subject-name present/configured |

%PKI-3-CRL_HTTP_FAIL : CRL Request over http for trustpoint [chars] failed. Reason : [chars]

| | |
|---------------------------|-----------------------------------|
| Explanation | Receival of CA certificate failed |
| Recommended Action | CA cert download failed |

%PKI-6-CERT_ROLLOVER_ACTIVE : A rollover ID certificate has been activated under trustpoint [chars] replacing the previous ID certificate. Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] End-date : [chars]

| | |
|---------------------------|--|
| Explanation | Rollover ID certificate active |
| Recommended Action | No action needed. Informational message only |

%PKI-2-CERT_SHADOW_INSTALL_FAIL : [chars].

| | |
|---------------------------|--|
| Explanation | Shadow CA/ID certificate installation failed. |
| Recommended Action | Check for the reason for failure and perform necessary steps |

%PKI-6-CERT_SHADOW_INSTALL : [chars] Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] End-date : [chars]

Explanation Shadow CA/ID certificate has been installed.

Recommended Action No action needed. Informational message only

%PKI-6-CERT_SHADOW_ACTIVE : [chars] Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] End-date : [chars]

Explanation Shadow CA/ID certificate has been activated.

Recommended Action No action needed. Informational message only

%PKI-3-CERT_ROLLOVER : Renew/Shadow event has failed for trustpoint : [chars] Reason : [chars]

Explanation Renew/Shadow event failed.

Recommended Action Perform manual renewal of certificate to avoid certificate expiry.

%PKI-3-CS_ROLLOVER_TRIGGER : CS Rollover event has been triggered for server [chars]

Explanation Rollover triggered for certificate server

Recommended Action Informational message only. No action needed.

%PKI-2-CS_ROLLOVER_FAIL : CS Rollover failed. Reason : [chars]

Explanation Rollover failed for certificate server

Recommended Action Critical error on rollover. Certificate Server has to be re-enabled.

%PKI-6-CS_ROLLOVER_AVAILABLE : [Sub/RA]CS Rollover certificate has been generated for [chars], and it will be activated at [chars] Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] End-date : [chars]

Explanation Rollover certificate generated

Recommended Action Informational message only. No action needed.

%PKI-6-CS_ROLLOVER_ACTIVE : [chars] Rollover certificate has been activated for [chars], replacing the previous [Sub/RA]CA certificate Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] End-date : [chars]

Explanation Rollover certificate activated

Recommended Action Informational message only. No action needed.

%PKI-3-OCSP_FETCH_FAIL : OCSP fetch failed. Reason : [chars]

Explanation OCSP Fetch failed

Recommended Action Enable socket/tcp debugs to check connectivity with ocsf server

%PKI-3-OCSP_RESPONSE_FAIL : OCSP response from [chars] has been discarded. Reason : [chars]

Explanation OCSP response parse failed

Recommended Action Check OCSP response

%PKI-6-OCSP_SUCCESS : OCSP response from [chars] has been successfully processed for certificate : [chars] Serial-number: [chars] Result : [chars]

Explanation OCSP response successfully processed.

Recommended Action Informational message only. No action needed.

%PKI-2-PKI_EVENT_LOG : PKI Event : [chars]

Explanation PKI Event for both success/failure.

Recommended Action Informational message only. No action needed.

%PKI-3-ENROLL_PKCS12 : Trustpoint [chars] configured as pkcs12 enrollment. SCEP enrollment not supported

Explanation Change the trustpoint configuration to point to enrollment-url

Recommended Action TP configuraiton need to be verified.

%PKI-3-GET_CERT_INITIAL : Failed with GetCertInitial for trustpoint [chars] Reason : [chars]

Explanation GetCertInitial encounter fatal error**Recommended Action** Contact the CA administrator.

%PKI-6-SLA_TRUSTPOINT_CHANGE : Attempting to override SLA Trustpoint. The current running SLA trustpoint config will be retained Config-Replace errors corresponding to SLA TrustPoint may be ingored.

Explanation PKI Event for both success/failure.**Recommended Action** Informational message only. No action needed.

PKTLOG

%PKTLOG-3-PROXY_IPC_SEND_FAILED : [chars][chars]

Explanation Transmission of an IPC message by the packet logger proxy failed.**Recommended Action** LOG_STD_ACTION

%PKTLOG-3-PROXY_IPC_ALLOC_FAILED : [chars]

Explanation Allocation of an IPC packet buffer by the packet logger proxy failed.**Recommended Action** LOG_STD_ACTION

%PKTLOG-3-PROXY_BAD_SUBTYPE : [dec]

Explanation Invalid subtype was passed to packet logger proxy IPC handler.**Recommended Action** LOG_STD_ACTION

%PKTLOG-2-PROXY_IPC_SET_FAILED : [chars]

Explanation Packet logger proxy IPC handler could not be initialized.**Recommended Action** LOG_STD_ACTION

%PKTLOG-4-PROXY_DUP_INIT : [chars]

Explanation Duplicate initialization IPC message received for user %d client id %d.
Recommended Action LOG_STD_ACTION

%PKTLOG-3-PKTLOG_IPC_SEND_FAILED : [chars] [chars]

Explanation Transmission of an IPC message by the packet logger failed. ACL and stats lost.
Recommended Action LOG_STD_ACTION

%PKTLOG-4-PKTLOG_IPC_ALLOC_FAILED : [chars]

Explanation Allocation of an IPC packet buffer by the packet logger failed.
Recommended Action LOG_STD_ACTION

%PKTLOG-4-PROXY_IPC_INVALID_MSG_LEN : [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation Invalid IPC message length.
Recommended Action LOG_STD_ACTION

%PKTLOG-4-PROXY_INVALID_USER_IDX : [int] [int]

Explanation IPC message contained invalid user index for client id.
Recommended Action LOG_STD_ACTION

%PKTLOG-1-PROXY_MEM_RET_ERR : [chars] [int] [int] [int]

Explanation IPC failed and could not return memory
Recommended Action LOG_STD_ACTION

%PKTLOG-1-PROXY_MEM_APPEND_ERR : [int] [int] [int]

Explanation Could not add memory to memory pool

%PKTLOG-1-PROXY_MEM_APPEND_ERR : [int] [int] [int]

Recommended Action LOG_STD_ACTION

PLATFORM

%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 LOG_STD_ACTION

%PLATFORM-3-FPTE_INTF_MODE : Front-panel ethernet mode configuration is not in sync with INTF_MODE rommon variable value. Please use 'write' command and reboot to fix this. 10G ports will work in default TE mode in this current boot

Explanation Front-panel ethernet mode configuration is not in sync with INTF_MODE rommon variable value. INTF_MODE rommon variable could have been over-written. Please use 'write' command and reboot to fix this. 10G ports will work in default TE mode in this current boot

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

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

%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.

%PLATFORM-3-GEC_NOMAC : Can't allocate MAC address for port-channel interface [int]

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

%PLATFORM-3-NO_BASEMAC : Can't retrieve base MAC address

Explanation Base MAC address determination failed at system start.

Recommended Action LOG_STD_ACTION

%PLATFORM-6-HASTATUS : RP switchover, [chars]

Explanation RP switchover events received by platform code.

Recommended Action No action is required.

%PLATFORM-6-HASTATUS_DETAIL : RP switchover, [chars] (count [int])

Explanation RP switchover events received by platform code.

Recommended Action No action is required.

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

%PLATFORM-3-HAKPA_FAIL : RP HA Keepalive failure, [chars]

Explanation Standby RP reports missing keepalives from Active. This is indicative of an IPC problem between peer IOSd processes

%PLATFORM-3-HAKPA_FAIL : RP HA Keepalive failure, [chars]

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

%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-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 | LOG_STD_ACTION |

%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-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-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-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-4-BOOTVAR_NOT_SET : Boot variable is not set. Boot variable either does not exist or buffer is too small. Keeping it blank

| | |
|---------------------------|---|
| Explanation | Boot variable either does not exist or buffer is too small. Not able to set boot variable. Ignoring it. |
| Recommended Action | No action is required. |

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

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

%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-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-1-NOSPACE : [chars] : no space alarm assert

| | |
|---------------------------|--|
| Explanation | bootflash memory exhausted Delete the old file from boot flash to create space |
| Recommended Action | No action is required. |

%PLATFORM-4-LOWSPACE : [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-5-LOWSPACERECOVER : [chars] : low space alarm deassert

| | |
|---------------------------|------------------------|
| Explanation | bootflash memory |
| Recommended Action | No action is required. |

%PLATFORM-4-MEMORYSIZE : Active and Standby memory configuration differ by more than 1 GB. Active = %lldKB, Standby = %lldKB

| | |
|---------------------------|--|
| Explanation | The memory configuration on both the Supervisor is different by more than 1GB. Some of the functionality which is high availability aware and dependent on the memory (like IOX) will be impacted. |
| Recommended Action | Please upgrade/downgrade memory configuration on both the Supervisor to match the size |

%PLATFORM-4-SDM_TEMPLATE : Mismatch in SDM templates configured on Active ([chars]) and Standby ([chars]) supervisors

| | |
|---------------------------|--|
| Explanation | The SDM template configured on the two Supervisors are different. Different SDM template would enable different sets of features on the active and standby supervisors. Table sizes configured for the common features may be different. These features will not function properly on switchover from one supervisor to another. |
| Recommended Action | Please configure the same SDM template on both Supervisors using 'sdm prefer <template>' configuration command, followed by a reload. Supervisors should be brought to hot-standby state and the SDM template configured such that the template gets applied to both the supervisors. Supervisors can also be brought up as standalone and SDM template configured on them one at a time followed by a reload. |

%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-5-RESETCARD : [chars] reset to acquire provisioned software

| | |
|---------------------------|---|
| Explanation | The linecard specified was not running the currently provisioned software, which it will acquire on restart. |
| Recommended Action | No user action is necessary. This message indicates the system is functioning normally and is provided for informational purposes only. |

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

PLATFORM_BRKOUT through PM

- [PLATFORM_BRKOUT](#)

- PLATFORM_CAPABILITY
- PLATFORM_ENVIRONMENT
- PLATFORM_INFRA
- PLATFORM_MATM
- PLATFORM_POWER
- PLATFORM_SCC
- PLATFORM_TAM
- PLIM_QOS
- PM

PLATFORM_BRKOUT

%PLATFORM_BRKOUT-3-BRKOUTCMD_SYNCFAILED : Failed to send Breakout command to hardware.

| | |
|---------------------------|---|
| Explanation | A messages that was sent to the hardware module, was not delivered correctly. The failure most likely occurred because of incorrect switch number or non-existing breakout port number specified, or a software communication error. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

PLATFORM_CAPABILITY

%PLATFORM_CAPABILITY-4-INIT : Fatal Initialization Error - [chars]

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

%PLATFORM_CAPABILITY-4-CALL : Fatal Initialization Error - [chars]

| | |
|--------------------|--------------------------------------|
| Explanation | An internal software error occurred. |
|--------------------|--------------------------------------|

%PLATFORM_CAPABILITY-4-CALL : Fatal Initialization Error - [chars]

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 output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

PLATFORM_ENVIRONMENT

%PLATFORM_ENVIRONMENT-1-NIM_OVER_CURRENT : NIM module in [chars] is in an over current condition [dec] [chars]. System will reset.

Explanation An over current condition has been detected in the indicated module. Remove the module causing the issue. User has ~30 seconds to remove module before the router will be shut down

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

%PLATFORM_ENVIRONMENT-1-NIM_OVER_CURRENT_GEN : NIM module(s) in an over current condition. System will reset.

Explanation An over current condition has been detected in the indicated module. Remove the module causing the issue. User has ~30 seconds to remove module before the router will be shut down

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

PLATFORM_INFRA

%PLATFORM_INFRA-5-IOS_INTR_OVER_LIMIT : IOS thread disabled interrupt for [int] msec

Explanation IOS thread process disabled interrupt too long

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

%PLATFORM_INFRA-5-IOS_INTR_LIMIT_NOT_SET : IOS thread interrupt limit not set

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

%PLATFORM_INFRA-5-IOS_INTR_EVENT : IOS thread interrupt event ([dec]).

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

%PLATFORM_INFRA-5-IOS_INTR_HISTORY : [[dec]][dec] [[dec]:[dec]] [[dec]->[dec]] ra[!*[hex] !*[hex]]

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

%PLATFORM_INFRA-5-IOS_INTR_INVALID_LEVEL : IOS thread interrupt level [dec] replaced by [dec]

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

PLATFORM_MATM**%PLATFORM_MATM-3-INVALID_MSG_RECEIVED : MATM received invalid SPI message.**

| | |
|---------------------------|---|
| Explanation | A messages that was to be received from the hardware module, was not received correctly. Mac address learning/ageing might be impacted as a result. The failure most likely occurred because of a software communication error. |
| Recommended Action | LOG_STD_SH_TECH_ACTION |

%PLATFORM_MATM-4-QUEUE_OVERLIMIT : MATM dropped [chars] messages as queue limit has reached.

| | |
|---------------------------|---|
| Explanation | Messages received from the hardware module were not processed because an internal queue was full. Mac address learning/aging might be impacted as a result. |
| Recommended Action | LOG_STD_SH_TECH_ACTION |

PLATFORM_POWER**%PLATFORM_POWER-6-MODEMISMATCH : [chars] power not in [chars] mode**

| | |
|---------------------------|---|
| Explanation | The mode of indicated power type is not available. This may be due to the fact that only one power supply or module of that type is present or functional in the system |
| Recommended Action | Please verify the appropriate power supply or module is plugged in the system. 'show power', 'show platform' CLI will provide more information. |

%PLATFORM_POWER-6-MODEMATCH : [chars] power is in [chars] mode

| | |
|---------------------------|--|
| Explanation | The mode of indicated power type is available. |
| Recommended Action | No action is required. |

%PLATFORM_POWER-1-UNAVAILABLE : Not enough [chars] power available for the system.

| | |
|---------------------------|---|
| Explanation | Sufficient indicated type of power is not available for the system to function properly. This is a critical issue, and system may need to be reset. Please verify that the power source is fine. Check 'show power', and 'show platform' CLI output for further information. LOG_STD_ACTION |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

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

PM**%PM-1-INCONSISTENT_PORT_STATE : Inconsistent HW/SW port state for [chars]. Please shut/no shut the interface**

| | |
|---------------------------|---|
| Explanation | The hardware and software port state has become inconsistent. |
| Recommended Action | Enter the shutdown command followed by the no shutdown command on the interface specified in the message. |

%PM-2-NOMEM : Not enough memory available for [chars]

| | |
|---------------------------|--|
| Explanation | The Port Manager subsystem could not obtain the memory it needed. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%PM-4-BAD_COOKIE : [chars] was detected

| | |
|---------------------------|--|
| Explanation | An invalid request was detected by the Port Manager. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%PM-4-BAD_CARD_COOKIE : an invalid card cookie was detected

| | |
|---------------------------|--|
| Explanation | An invalid request was detected by the Port Manager. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%PM-4-BAD_PORT_COOKIE : an invalid port cookie was detected

| | |
|---------------------------|--|
| Explanation | An invalid request was detected by the Port Manager. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%PM-4-BAD_VLAN_COOKIE : an invalid vlan cookie was detected

| | |
|---------------------------|--|
| Explanation | An invalid request was detected by the Port Manager. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%PM-4-BAD_CARD_SLOT : an invalid card slot ([dec]) was detected

| | |
|---------------------------|--|
| Explanation | An invalid request was detected by the Port Manager. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%PM-4-BAD_PORT_NUMBER : an invalid port number ([dec]) was detected

| | |
|---------------------------|--|
| Explanation | An invalid request was detected by the Port Manager. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%PM-4-BAD_VLAN_ID : an invalid vlan id ([dec]) was detected

| | |
|---------------------------|--|
| Explanation | An invalid request was detected by the Port Manager. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%PM-4-BAD_APP_ID : an invalid application id ([dec]) was detected

| | |
|---------------------------|--|
| Explanation | An invalid request was detected by the Port Manager. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%PM-4-BAD_APP_REQ : an invalid [chars] request by the '[chars]' application was detected

| | |
|---------------------------|--|
| Explanation | An invalid request was detected by the Port Manager. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%PM-4-TOO_MANY_APP : application '[chars]' exceeded registration limit

| | |
|---------------------------|--|
| Explanation | An invalid request was detected by the Port Manager. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%PM-4-ERR_DISABLE : [chars] error detected on [chars], putting [chars] in err-disable state

Explanation This is a defensive measure that will put the interface in err-disable state when it detects a mis-configuration or mis-behavior . A recovery will be attempted after the configured retry time (default 5 minutes).

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-ERR_RECOVER : Attempting to recover from [chars] err-disable state on [chars]

Explanation This is an attempt to bring the interface back after taking it down to err-disable state

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-ERR_DISABLE_VP : [chars] error detected on [chars], vlan [dec]. Putting in err-disable state.

Explanation This is a defensive measure that will put the virtual port (i.e., the port-vlan pair) in err-disable state when it detects a mis-configuration or mis-behavior. If so configured, a recovery will be attempted after the configured retry time (default 5 minutes).

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-ERR_RECOVER_VP : Attempting to recover from [chars] err-disable state on [chars], vlan [dec].

Explanation This is an attempt to bring the virtual port back after taking it down to err-disable state

%PM-4-ERR_RECOVER_VP : Attempting to recover from [chars] err-disable state on [chars], vlan [dec].

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-UNKNOWN_HOST_ACCESS : Invalid Host access value ([dec]) is received

Explanation Host access table is being accesses with an invalalid host access value

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-INVALID_HOST_ACCESS_ENTRY : Invalid Host access entry type ([dec]) is received

Explanation Host access entry should be one of configured/dynamic type

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-BAD_HA_ENTRY_EVENT : Invalid Host access entry event ([dec]) is received

Explanation Host access table is entry event is not any of add/delete/update event

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-LIMITS : The number of vlan-port instances on [chars] exceeded the recommended limit of [dec]

| | |
|---------------------------|---|
| Explanation | The total number of individual VLAN ports, counted over the module or switch specified in the error message, has exceeded the module or switch limit specified in the error message. VLANs can be counted more than once; if VLAN 1 is carried on 10 interfaces, it will count as 10 VLAN ports. For some platforms, e.g. Catalyst 6000, bundling is also ignored for purposes of this count; if 8 interfaces on the same module are in one bundle, and the port channel is carrying VLAN 1, it will count as 8 VLAN ports. |
| Recommended Action | Reduce the number of trunks and VLANs configured in the module or switch specified in the error message. Keep the virtual port, VLAN port, count below the recommended limit specified in the configuration documentation. Enter the show interface trunk command to see the total number of trunks and VLANs. |

%PM-3-ERR_INCOMP_PORT : [dec]/[dec] is set to inactive because [dec]/[dec] is a [chars] port

| | |
|---------------------------|--|
| Explanation | Private host port can't be configured with trunk, private promiscuous, and span destination port on the same coil. |
| Recommended Action | Try to configure the incompatible ports on different coils. |

%PM-4-EXT_VLAN_NOTAVAIL : VLAN [dec] not available in Port Manager

| | |
|---------------------------|---|
| Explanation | Port Manager failed to allocate the requested VLAN. The VLAN is either used as an internal VLAN by other features or the maximum allowed extended VLANs are already configured. |
| Recommended Action | Try a different VLAN on the device if the limit on maximum allowed extended VLANs is not yet reached. |

%PM-4-INT_VLAN_NOTAVAIL : Failed to allocate internal VLAN in Port Manager

| | |
|---------------------------|--|
| Explanation | Port Manager failed to find any available internal VLAN |
| Recommended Action | Delete some extened range VLANs created by users or remove some features that require internal VLAN allocation, e.g. routed port |

%PM-2-LOW_SP_MEM : Switch process available memory is less than [dec] bytes

| | |
|---------------------------|---|
| Explanation | Switch Processor available memory dropped to a low level. Possibly too many Layer 2 VLANs are configured in the system. |
| Recommended Action | Removed features from the system to reduce memory usage. |

%PM-4-EXT_VLAN_INUSE : VLAN [dec] currently in use by [chars]

Explanation Port Manager failed to allocate the VLAN for external use as the VLAN is currently occupied by another feature

Recommended Action Reconfigure the feature, e.g. routed port, to use another internal VLAN; Or request another available VLANs.

%PM-2-VLAN_ADD : Failed to add VLAN [dec] - [chars].

Explanation Failed in adding VLAN to VTP. The reason is stated in the string.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-6-EXT_VLAN_ADDITION : Extended VLAN is not allowed to be configured in VTP CLIENT mode.

Explanation This message will only be seen if you try to configure an extended VLAN while the switch is in VTP client mode. The configuration will fail and will not be written to the running configuration file, but otherwise switch performance and features will be unaffected.

Recommended Action This is an informational message only, no further action is required. If you need to configure an extended VLAN, you must configure the switch to leave VTP client mode.

%PM-4-NO_SUBBLOCK : No PM subblock found for [chars]

Explanation Failed to find PM subblock for this interface.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-INT_FAILUP : [chars] failed to come up. No internal VLAN available

Explanation Port Manager failed to allocate internal VLAN and thus the interface cannot come up.

%PM-4-INT_FAILUP : [chars] failed to come up. No internal VLAN available

Recommended Action Remove extended range VLAN to free up resources.

%PM-4-VMPS_CFG : Dynamic access VLAN [dec] same as voice vlan on [chars].

Explanation Access VLAN on VMPS server is set to same VLAN as voice VLAN on the port.

Recommended Action Access VLAN assignment on VMPS server should be different from voice VLAN.

%PM-4-INACTIVE : putting [chars] in inactive state because [chars]

Explanation The Port Manager has been blocked from creating a virtual port for the switch port and VLAN, causing the port to be in an inactive state. The reason for this condition is specified in the error message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-3-INTERNALERROR : Port Manager Internal Software Error ([chars]: [chars]: [dec]: [chars])

Explanation There is an internal software error encountered in the IOS Port Manager.

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

%PM-4-PVLAN_TYPE_CFG_ERR : Failed to set VLAN [dec] to a [chars] VLAN

Explanation Platform failed to set private vlan type.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-PORT_BOUNCED : Port [chars] was bounced by [chars].

Explanation The Port Manager needed to perform a reactivation of a port in the link down state during a switchover. A port is only reactivated when the port data structures lack consistency between the active and standby supervisors. Active ports in the link down state were returned to the link up state by the reactivation event.

Recommended Action No action is required.

%PM-4-MPLS_MTU_PORT_CFG : MPLS MTU size [dec] is not supported by port [chars].

Explanation The MPLS MTU size configured on the port is larger than the maximum MTU size that can be supported by this port. As a result, large packets can be dropped.

Recommended Action Reduce the MPLS MTU size.

%PM-4-MPLS_MTU_EC_CFG : MPLS MTU size [dec] is not supported by one or more ports in channel [chars].

Explanation The MPLS MTU size configured on the ethernet channel is larger than the maximum MTU size that can be supported by one or more ports in this channel. As a result, large packets can be dropped.

Recommended Action Reduce the MPLS MTU size, or remove these ports from the channel before increasing the MPLS MTU size.

%PM-4-PORT_INCONSISTENT : Port [chars] is inconsistent: IDB state [chars] (set %TE ago), link: [chars] (%TE ago), admin: [chars] (%TE ago).

Explanation Port Manager on Standby discovered that the port state has been inconsistent for more than 1 second. Inconsistent ports are reactivated on switchover (you will see PORT_BOUNCED message).

Recommended Action No action is required.

%PM-4-PORT_CONSISTENT : Port [chars] consistency has been restored, IDB state: [chars].

Explanation Port Manager on Standby discovered that port state became consistent again.

Recommended Action No action is required.

PMAN through PSM

- PMAN
- PMDWDWM
- PMIPV6
- POLICY_API
- POLICY_MANAGER
- PORT_SECURITY
- PRELIB_DL
- PRST_IFS
- PSD_MOD
- PSM

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-3-PROCFAILOPT : 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-0-PROCFAILCRIT : A critical process [chars] has failed (rc [dec])

| | |
|--------------------|--|
| Explanation | A process important to the functioning of the router has failed. |
|--------------------|--|

%PMAN-0-PROCFAILCRIT : A critical process [chars] has failed (rc [dec])

| | |
|---------------------------|---|
| 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-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-PROCSHUT : 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-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-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. |
|--------------------|---|

%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.

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-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_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_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-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_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_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-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-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.

%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-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.

PMDWDM

%PMDWDM-4-TCA : [chars]: [chars] [chars] [chars] value (%lld) threshold (%lld) [chars]

Explanation The specified PM FEC TCA has been declared or released

Recommended Action Recommended action is to repair the source of the alarm.

PMIPv6

%PMIPv6-5-TUNNELDELETE : Deleting the Proxy Mobile IPv6 tunnel [chars]

Explanation The PMIPv6 tunnel is being deleted.

Recommended Action If you suspect this condition contact technical support representative with the output of show tech

%PMIPv6-5-TUNNELUP : Bringing up the Proxy Mobile IPv6 tunnel [chars]

Explanation The PMIPv6 tunnel is being deleted.

Recommended Action If you suspect this condition contact technical support representative with the output of show tech

POLICY_API

%POLICY_API-4-POLICYOVERRIDE : Dynamic policy overriding static on intf:[chars]

Explanation Static policy and dynamic policy are configured on the interface. The dynamic policy will override the static policy.

Recommended Action Remove the static policy config if desired.

%POLICY_API-4-POLICYSTATICCLR : Static policy on intf:[chars] cleared. Dynamic policy in use.

Explanation A dynamic policy was overriding the static policy. Static policy has been cleared.

Recommended Action No action required.

%POLICY_API-4-POLICYDYNCLR : Dynamic policy on intf:[chars] cleared. Static policy in use.

Explanation A dynamic policy was overriding the static policy. The dynamic policy has been cleared, the static policy is now in effect.

Recommended Action No action required.

%POLICY_API-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation Initialization of the specified subblock data structure could not be accomplished.

Recommended Action

POLICY_MANAGER

%POLICY_MANAGER-2-INIT_FAILURE : Init failure: [chars]

Explanation A problem occurred in the Policy Manager during initialization

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%POLICY_MANAGER-3-PRE_INIT_CALL : Policy Manager routine called prior to initialization

Explanation The Policy Manager component was called prior to initialization. This could result in vital information being lost.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%POLICY_MANAGER-2-NO_FREE_EVENT_BUFFERS : Event pool depleted: [chars]

Explanation The event pool has been depleted. There are no free buffers to process event

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%POLICY_MANAGER-3-INVALID_SEVERITY : Invalid event severity [hex]

Explanation The event that was received by the Policy Manager contained an invalid severity and was therefore not processed.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%POLICY_MANAGER-3-NULL_ACTION_ROUTINE : NULL action routine invoked

| | |
|---------------------------|---|
| Explanation | The Policy Manager attempted to invoke an action which was NULL |
| Recommended Action | Copy the error message exactly as it appears, and report it to your technical support representative. |

%POLICY_MANAGER-3-INVALID_ACTION : Invalid action

| | |
|---------------------------|---|
| Explanation | An invalid Policy Manager action was detected. |
| Recommended Action | Copy the error message exactly as it appears, and report it to your technical support representative. |

%POLICY_MANAGER-3-INVALID_PARAMETERS : A call to Policy Manager is made with invalid parameters

| | |
|---------------------------|---|
| Explanation | A call to Policy Manager was made with one or more invalid parameters |
| Recommended Action | Copy the error message exactly as it appears, and report it to your technical support representative. |

%POLICY_MANAGER-3-NO_FREE_POLICY_IDS : No more Policy IDs available

| | |
|---------------------------|--|
| Explanation | There are no more Policy IDs that can be allocated. The effect of this is that Policy Manager policies can no longer be created. |
| Recommended Action | Copy the error message exactly as it appears, and report it to your technical support representative. |

PORT_SECURITY**%PORT_SECURITY-2-PSECURE_VIOLATION : Security violation occurred, caused by MAC address [enet] on port [chars].**

| | |
|---------------------------|--|
| Explanation | An unauthorized device attempted to connect on a secure port. The MAC address of the unauthorized device and the secure port are specified in the error message. |
| Recommended Action | Determine the device that attempted to connect on the secure port. Notify your network system administrator of this condition. |

%PORT_SECURITY-2-PSECURE_VIOLATION_VLAN : Security violation on port [chars] due to MAC address [enet] on VLAN [dec]

Explanation An unauthorized device attempted to connect on a secure trunk port. The MAC address of the unauthorized device and the secure trunk and VLAN are specified in the error message.

Recommended Action Determine the device that attempted to connect via the secure trunk port. Notify your network system administrator of this condition.

%PORT_SECURITY-6-VLAN_REMOVED : VLAN [int] is no longer allowed on port [chars]. Its port security configuration has been removed.

Explanation A configured VLAN has been excluded either due to port mode change or allowed VLAN list change and is removed from the configuration.

Recommended Action No action is required.

%PORT_SECURITY-6-ADDR_REMOVED : Address <[int]:[enet]> exists on port [chars]. It has been removed from port [chars].

Explanation A routed port has changed to a switched port. An address stored in the previous switched port configuration is now in conflict and has been deleted.

Recommended Action No action is required.

%PORT_SECURITY-6-VLAN_FULL : Vlan [int] on port [chars] has reached its limit. Address [enet] has been removed.

Explanation The voice VLAN has become the same as the access VLAN, but the number of addresses allowed on the access VLAN has been reached, so the address has been deleted.

Recommended Action No action is required.

%PORT_SECURITY-6-ADDRESSES_REMOVED : Maximum system secure address count reached. Some secure addresses configured on port [chars] removed.

Explanation Some configured and sticky MAC addresses on the specified port were removed from the configuration. The number of secure addresses that the system supports was exceeded. This condition occurs only during hot swapping or port-mode changes (for example, when the port is converted from a L3 to a L2 port).

Recommended Action

%PORT_SECURITY-6-ADDR_ADDFAIL : Address <[int]:[enet]> could not be added to [chars] due to [chars].

Explanation In some rare cases MAC addresses are learnt before all software modules finished initialization and fully functional. In such cases this address may not be known to all modules in the system.

Recommended Action No action is required.

PRELIB_DL

%PRELIB_DL-3-UNREGISTERED_DLOPEN : Unregistered request to dlopen library [chars]

Explanation The program is attempting to dynamically open a library that has not been explicitly listed on its list of dynamically opened libraries. This represents a potential security threat as well as creates potential run-time instabilities

Recommended Action File a DDTS against the listed program to register the library in question. If this was an unexpected call to dlopen then the source of the call should be root-caused and closed

PRST_IFS

%PRST_IFS-3-GENERAL : persistent media IFS general error: [chars]

Explanation Persistent media module (file system) general error

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

%PRST_IFS-3-FILE : persistent media IFS file error: [chars]

Explanation Persistent media module (file system) file error

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

%PRST_IFS-3-FILEMEM : No memory to update [chars]. Please free some space

| | |
|---------------------------|--|
| Explanation | There is no filesystem memory for the system to write an updated version of the persistent variable file. |
| Recommended Action | Please free space on the filesystem shown in the error message as soon as possible. This will involve deleting existing files, and/or squeezing the filesystem if the filesystem requires it (bootflash for example may require it). |

PSD_MOD

%PSD_MOD-5-DMI_NOTIFY_USER :

| | |
|---------------------------|---------------------------------------|
| Explanation | An informational message from psd_mod |
| Recommended Action | Not applicable |

%PSD_MOD-5-DMI_NOTIFY_RESTARTING :

| | |
|---------------------------|---|
| Explanation | A specific informational message from psd_mod |
| Recommended Action | Not applicable |

%PSD_MOD-5-DMI_NOTIFY_NETCONF_START :

| | |
|---------------------------|---|
| Explanation | A specific informational message from psd_mod |
| Recommended Action | Not applicable |

%PSD_MOD-5-DMI_NOTIFY_NETCONF_STOP :

| | |
|---------------------------|---|
| Explanation | A specific informational message from psd_mod |
| Recommended Action | Not applicable |

%PSD_MOD-5-DMI_NOTIFY_RESTCONF_START :

| | |
|---------------------------|---|
| Explanation | A specific informational message from psd_mod |
| Recommended Action | Not applicable |

%PSD_MOD-5-DMI_NOTIFY_RESTCONF_STOP :

| | |
|---------------------------|---|
| Explanation | A specific informational message from psd_mod |
| Recommended Action | Not applicable |

%PSD_MOD-3-DMI_FILE_CREATE_FAIL :

| | |
|---------------------------|---|
| Explanation | An error has occurred when attempting to create a file. |
| Recommended Action | Log a message |

%PSD_MOD-3-DMI_DIR_CREATE_FAIL :

| | |
|---------------------------|--|
| Explanation | An error has occurred when attempting to create a directory. |
| Recommended Action | Log a message |

%PSD_MOD-3-DMI_FILE_DELETE_FAIL :

| | |
|---------------------------|---|
| Explanation | An error has occurred when attempting to delete a file. |
| Recommended Action | Log a message |

%PSD_MOD-3-DMI_DIR_DELETE_FAIL :

| | |
|---------------------------|--|
| Explanation | An error has occurred when attempting to delete a directory. |
| Recommended Action | Log a message |

PSM

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

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

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

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

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

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

%PSM-3-CHUNK : [chars]: [chars] [hex] [hex]

| | |
|---------------------------|---|
| Explanation | Parameterized Chunk Manager error occurred |
| Recommended Action | Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version , show running-config and show process memory and contact your Cisco technical support representative. |

%PSM-3-INVALIDPARAM : Invalid parameter - [chars]

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

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

| | |
|--------------------|-------------------------|
| Explanation | Resource Failure: %s %d |
|--------------------|-------------------------|

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

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

%PSM-3-ISSU_REG : ISSU client [chars] ([dec]), entity [dec], failed ISSU registration: [chars]

| | |
|---------------------------|---|
| Explanation | ISSU negotiation failed for this XDR client. |
| Recommended Action | This error indicates a coding problem. It is an error that will occur every time this image is run, and requires a code change to fix it. |

%PSM-3-L2_PATH : [chars] - path set [hex]([IPV6 address]), path [chars]

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

PT through RCMD

- PT
- PW
- QFP_MLP
- QLLC
- QOS
- RAC
- RADIUS
- RADIX
- RADPROXY
- RCMD

PT

%PT-3-BADSCOPERATION : Invalid [chars] of subcommand [dec] on ruleset %S.

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

%PT-3-BADRULEUNLOCK : Invalid unlock on ruleset %S, [chars].

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

%PT-3-BADRULEDELETE : Error deleting ruleset %S, [chars].

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

%PT-3-NOOPERATION : No [chars] operation defined for [chars] parameter [chars].

| | |
|---------------------------|--|
| Explanation | An internal data consistency error has been detected. |
| Recommended Action | Call your technical support representative for assistance. |

%PT-6-INVOPERATION : An invalid [chars] operation defined for [chars] parameter [chars].

| | |
|---------------------------|--|
| Explanation | An internal data consistency error has been detected. |
| Recommended Action | This is an internal verification message, and doesn't affect operation, but notify your technical support representative that this image has this problem. |

%PT-4-RULESETWRITER : PT ruleset %S evaluation skipped; ruleset is being modified.

| | |
|---------------------------|---|
| Explanation | An incoming connection attempt was not evaluated by the identified PT ruleset because that ruleset is in the process of being modified. |
| Recommended Action | The editing of the ruleset must be completed before it's eligible to process an incoming connection attempt. |

%PT-3-PARAMEVALERR : PT ruleset %S parameter error in [chars] line [dec]; [chars] [dec].

| | |
|---------------------------|--|
| Explanation | A parameter evaluation error was detected for the specified ruleset, operation and line. |
| Recommended Action | Call your technical support representative for assistance. |

%PT-3-PARAMRESULTERR : PT ruleset %S protocol [chars] parameter [chars] parse error: [chars].

| | |
|---------------------------|---|
| Explanation | The final value of a ruleset's protocol/parameter string could not be decoded. |
| Recommended Action | Review the ruleset elements that set the parameter value to determine if they need to be modified to generate a valid result. |

%PT-3-PARAMRESULTINVALID : PT ruleset %S protocol [chars] parameter [chars] invalid: [chars].

| | |
|---------------------------|---|
| Explanation | The value of a ruleset's protocol/parameter is not valid. |
| Recommended Action | Review the ruleset elements that set the parameter value to determine if they need to be modified to generate a valid result. |

%PT-4-PARAMCHANGED : PT ruleset %S: [chars] parameter [chars] changed; [chars].

| | |
|---------------------------|---|
| Explanation | A protocol parameter value, generated by a ruleset, was modified to be valid for protocol translation operation. |
| Recommended Action | Review the ruleset processing for the identified parameter to determine if it needs to be modified to generate a value that is, for example, within the range of values supported for PT. |

%PT-6-RULESETLIMIT : Ruleset [chars] refused an incoming connection due to the max-user limit.

| | |
|---------------------------|--|
| Explanation | An incoming connection attempt that would normally be processed by a Protocol Translation ruleset has been refused because of the ruleset's configured max-user limit. |
| Recommended Action | The network administrator may need to verify that the ruleset max-user limit is appropriate. |

%PT-6-RULESETACCESS : Ruleset [chars] refused an incoming connection due to the access-class.

| | |
|---------------------------|--|
| Explanation | An incoming connection attempt that was matched by a Protocol Translation ruleset has been refused because the source address failed the ruleset's configured access-class test. |
| Recommended Action | The network administrator may need to verify that the ruleset access-class configuration is appropriate. |

PW**%PW-3-IPC_ALLOC_FAILED : [chars]**

Explanation Allocation of an IPC packet buffer by the pseudo wired feature failed.

Recommended Action LOG_STD_ACTION

%PW-3-IPC_SEND_FAILED : [chars]

Explanation Transmission of an IPC message by the pseudo wire feature failed.

Recommended Action LOG_STD_ACTION

QFP_MLP**%QFP_MLP-2-BQS_SCRATCH_TOOSMALL : QFP BQS Scratch area too small for MLP feature usage (size: [dec], need: [dec]).**

Explanation Cisco internal software error. QFP MLP initialization detected that the BQS scratch memory area is insufficient for MLP usage. The MLP Bundle interfaces will not be functional while this condition exists.

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

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

Explanation Cisco internal software error. QFP MLP initialization detected that the Proxy IPC interface initialization failed. The MLP Bundle interfaces will not be functional while this condition exists.

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

%QFP_MLP-3-INV_PROXY_MSG : QFP MLP Proxy received invalid Message ID [dec]

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

%QFP_MLP-3-PROXY_INV_RX_TX_INTF_VALUE : QFP MLP Proxy ([chars] [chars]) invalid Rx/Tx interface value [dec] for interface [dec] (handle)

| | |
|---------------------------|---|
| Explanation | Cisco internal software error. QFP MLP Proxy was unable to complete the requested MLP Bundle state change or configuration update due to an invalid interface Rx/Tx designation in the proxy request. The associated MLP Bundle interface may not be fully functional as a result of this condition. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-3-PROXY_NULL_BUNDLE : QFP MLP Proxy ([chars] [chars]) NULL Bundle sub-block for interface [dec] (handle)

| | |
|---------------------------|---|
| Explanation | Cisco internal software error. QFP MLP Proxy was unable to complete the requested MLP Bundle state change or configuration update due to an invalid or uninitialized Bundle sub-block. The associated MLP Bundle interface may not be fully functional as a result of this condition. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-3-PROXY_NULL_LINK : QFP MLP Proxy ([chars] [chars]) NULL Member Link sub-block for interface [dec] (handle)

| | |
|--------------------|--|
| Explanation | Cisco internal software error. QFP MLP Proxy was unable to complete the requested MLP Member Link state change or configuration update due to an invalid or uninitialized Member Link sub-block. The associated MLP Member Link interface may not be fully functional as a result of this condition. |
|--------------------|--|

%QFP_MLP-3-PROXY_NULL_LINK : QFP MLP Proxy ([chars] [chars]) NULL Member Link sub-block for interface [dec] (handle)

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

%QFP_MLP-3-PROXY_INV_BUNDLE_STATE : QFP MLP Proxy ([chars] [chars]) invalid Bundle state [chars] ([dec]) for interface [chars]

Explanation Cisco internal software error. QFP MLP Proxy message could not be processed due to the MLP Bundle being in an incorrect state to accept the message. The associated MLP Bundle interface may not be fully functional as a result of this condition.

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

%QFP_MLP-3-PROXY_INV_LINK_STATE : QFP MLP Proxy ([chars] [chars]) invalid Link state [chars] ([dec]) for interface [chars]

Explanation Cisco internal software error. QFP MLP Proxy message could not be processed due to the MLP Link being in an incorrect state to accept the message. The associated MLP Bundle interface may not be fully functional as a result of this condition.

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

%QFP_MLP-3-PROXY_INV_SUB_DEV_ID : QFP MLP Proxy ([chars] [chars]) invalid Sub-Device ID [dec] for interface [chars]

Explanation Cisco internal software error. QFP MLP Proxy message Bundle Add could not be processed for the indicated interface due to an invalid Sub-Device ID. The associated MLP Bundle interface may not be fully functional as a result of this condition.

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

%QFP_MLP-3-PROXY_INV_LINK_ID : QFP MLP Proxy ([chars] [chars]) invalid Link ID [dec] for interface [chars]

| | |
|---------------------------|---|
| Explanation | Cisco internal software error. QFP MLP Proxy message Link Add could not be processed for the indicated interface due to an invalid Link ID. The associated MLP Bundle interface may not be fully functional as a result of this condition. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-3-PROXY_DUP_LINK_ID : QFP MLP Proxy ([chars] [chars]) duplicate Link ID [dec] for interface [chars] and [chars]

| | |
|---------------------------|---|
| Explanation | Cisco internal software error. QFP MLP Proxy message Link Add could not be processed for the indicated interface due use of a given Link ID on multiple member links within the same MLP Bundle. The associated MLP Bundle interface may not be fully functional as a result of this condition. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-3-PROXY_INV_CLASS_INFO : QFP MLP Proxy ([chars] [chars]) invalid Class Info (Base: [hex], Num: [dec]) for interface [chars]

| | |
|---------------------------|---|
| Explanation | Cisco internal software error. QFP MLP Proxy message contained invalid MLP Class information. The associated MLP Bundle interface may not be fully functional as a result of this condition. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-3-PROXY_INV_MRRU : QFP MLP Proxy ([chars] [chars]) invalid MRRU [dec] for interface [chars]

| | |
|--------------------|--|
| Explanation | Cisco internal software error. QFP MLP Proxy message contained an invalid MLP Bundle MRRU. The associated MLP Bundle interface may not be fully functional as a result of this condition. Possible workaround is to reduce the interface mtu on the Multilink bundle interface on both ends of the connection to 9216 or less and then shut/no shut the Multilink bundle interface to force renegotiation of the MLP MRRU. |
|--------------------|--|

%QFP_MLP-3-PROXY_INV_MRRU : QFP MLP Proxy ([chars] [chars]) invalid MRRU [dec] for interface [chars]

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

%QFP_MLP-3-PROXY_INV_LOST_FRAG_TO : QFP MLP Proxy ([chars] [chars]) indicated an invalid lost fragment timeout ([dec]) for interface [chars]

Explanation Cisco internal software error. QFP MLP was provided a invalid lost fragment timeout value. The associated MLP Bundle interface may not be fully functional as a result of this condition.

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

%QFP_MLP-3-PROXY_INV_BUFFER_LIMIT : QFP MLP Proxy ([chars] [chars]) indicated an invalid Rx buffer limit ([dec]) for interface [chars]

Explanation Cisco internal software error. QFP MLP was provided a invalid Rx buffer limit value. The associated MLP Bundle interface may not be fully functional as a result of this condition.

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

%QFP_MLP-3-PROXY_INV_TX_LINK_WEIGHT : QFP MLP Proxy ([chars] [chars]) indicated an invalid Tx Link weight ([dec]) for interface [chars]

Explanation Cisco internal software error. QFP MLP Proxy message contained invalid Tx Link weight information. The associated MLP Member Link and/or Bundle interface may not be fully functional as a result of this condition.

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

%QFP_MLP-3-PROXY_INV_TX_LINK_FRAG_SIZE : QFP MLP Proxy ([chars] [chars]) indicated an invalid Tx Link optimal fragment size ([dec]) for interface [chars]

| | |
|---------------------------|---|
| Explanation | Cisco internal software error. QFP MLP Proxy message contained invalid Tx Link optimal fragment size information. The associated MLP Member Link and/or Bundle interface may not be fully functional as a result of this condition. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-3-PROXY_B_TX_IDLE_LINK_TRANSITION : QFP MLP Proxy ([chars] [chars]) invalid Bundle state [chars] ([dec]) for interface [chars]/[chars]

| | |
|---------------------------|---|
| Explanation | Cisco internal software error. Multilink Idle-Link transition could not be made due invalid Bundle state at the time of the request. The associated MLP Bundle interface may not be fully functional as a result of this condition. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-3-PROXY_LAI_TX_IDLE_LINK_TRANSITION : QFP MLP Proxy ([chars] [chars]) invalid Link state [chars] ([dec]) for interface [chars]/[chars]

| | |
|---------------------------|---|
| Explanation | Cisco internal software error. Multilink Idle-Link transition could not be made due invalid Link state at the time of the request to convert the link to an Idle-Link. The associated MLP Bundle interface may not be fully functional as a result of this condition. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-3-PROXY_LIA_TX_IDLE_LINK_TRANSITION : QFP MLP Proxy ([chars] [chars]) invalid Link state [chars] ([dec]) for interface [chars]/[chars]

| | |
|--------------------|--|
| Explanation | Cisco internal software error. Multilink Idle-Link transition could not be made due invalid Link state at the time of the request to convert the Idle-Link to an active link. The associated MLP Bundle interface may not be fully functional as a result of this condition. |
|--------------------|--|

%QFP_MLP-3-PROXY_LIA_TX_IDLE_LINK_TRANSITION : QFP MLP Proxy ([chars] [chars]) invalid Link state [chars] ([dec]) for interface [chars]/[chars]

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

%QFP_MLP-4-PROXY_SYNC : QFP MLP Proxy ([chars] [chars]) Bundle/Link sync issue with interface [chars]

Explanation Cisco internal software error. QFP MLP Proxy message processing detected a Bundle-Link state synchronization abnormality. This condition should be cosmetic. Full context of the message will aid in problem isolation.

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

%QFP_MLP-3-PROXY_IPC_ALLOC_FAIL : QFP MLP Proxy ([chars]) response lost due to buffer allocation failure (Interface [chars])

Explanation Cisco internal software error. QFP MLP Proxy message processing detected a IPC buffer allocation failure during response processing. The associated MLP interface may not be fully functional as a result of this condition.

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

%QFP_MLP-4-PROXY_IPC_ALLOC_FAIL2 : QFP MLP Proxy ([chars]) response lost due to buffer allocation failure (Interface [chars])

Explanation Cisco internal software error. QFP MLP Proxy message processing detected a IPC buffer allocation failure during proxy response processing. The associated MLP functionality may not be fully functional as a result of this condition.

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

%QFP_MLP-3-PROXY_SID_UPDATE_LOCK_ERROR : QFP MLP Proxy ([chars]) Multiple SID Update Locks to same interface (Interface [chars], SID: [hex])

| | |
|---------------------------|---|
| Explanation | Cisco internal software error. QFP MLP Proxy message processing detected a Bundle Schedule SID update sequence error. One or more interface schedules could have been affected. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-3-PROXY_SID_UPDATE_COMPLETE_ERROR : QFP MLP Proxy ([chars]) SID Update Complete w/o Preceeding Lock (Interface [chars], SID: [hex])

| | |
|---------------------------|---|
| Explanation | Cisco internal software error. QFP MLP Proxy message processing detected a Bundle Schedule SID update sequence error. One or more interface schedules could have been affected. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-3-EARLY_RX_INIT : QFP MLP Early Receive initialization error ([chars])

| | |
|---------------------------|---|
| Explanation | Cisco internal software error. Multilink Early Receive initialization could not be performed due to indicated error. This could cause possible lost MLP encapsulated packets during member link/bundle bringup and possibly cause the failure to complete member link/bundle initialization. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-3-EARLY_RX_CLEANUP : QFP MLP Early Receive cleanup error ([chars])

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|---------------------------|---|
| Explanation | Cisco internal software error. Multilink Early Receive cleanup could not be performed due to indicated error. This could cause possible QFP memory leak. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-3-MCMP_TX_ENCAP_SEQ_CFG_ERROR : MLP QoS encap-sequence ([dec]) must be less than the number of MCMP suspension classes ([dec]) for output interface [chars], MSGDEF_LIMIT_SLOW

Explanation User software configuration mismatch with PPP Multilink Multiclass (MCMP). User needs to either reduce the highest encap-sequence in the policy-map to be less than the number of negotiated MCMP suspension classes or increase the number of suspension classes negotiated with the peer.

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

%QFP_MLP-3-MCMP_INVALID_RX_CLASS : MLP MCMP suspension class ID ([dec]) received from the peer must be less than the number of negotiated classes ([dec]) for interface [chars] (Peer error), MSGDEF_LIMIT_SLOW

Explanation Possible error on the peer device with PPP Multilink Multiclass (MCMP). Received MLP packet contained a MCMP suspension class ID greater than the number of negotiated suspension classes.

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

%QFP_MLP-4-TX_BUNDLE_FLOVED_OFF : QFP MLP Tx Bundle [chars] flowed OFF for an abnormal duration due to one or more congested member link(s) (Ticks: [dec])

Explanation Possible Cisco internal software or hardware error. QFP MLP Tx processing detected that a MLP Bundle interface was flowed off for an extended period of time due to a congested member link queue. The associated MLP Bundle interface may not be fully functional as a result of this condition.

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

%QFP_MLP-4-TX_BUNDLE_FLOUED_ON : QFP MLP Tx Bundle [chars] flowed ON after being flowed OFF for an abnormal duration (Ticks: [dec])

| | |
|---------------------------|---|
| Explanation | Possible Cisco internal software or hardware error. QFP MLP Tx processing detected that a MLP Bundle interface was flowed off for an extended period of time due to a congested member link queue. The associated MLP Bundle interface may not be fully functional as a result of this condition. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-3-MLP_INVALID_EVSI_INTF_STATE : MLP Link Add/Update received with invalid EVSI indication for Member Link: [chars], Bundle: [chars]

| | |
|---------------------------|---|
| Explanation | Either the user attempted to mix broadband and non-broadband member links on the same bundle or an internal error has occurred processing a configuration update. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QFP_MLP-4-TX_BUNDLE_LOOP : QFP detected re-entry into MLP Tx Bundle [chars]), MSGDEF_LIMIT_SLOW

| | |
|---------------------------|---|
| Explanation | Possible software configuration error in the network that causes re-entry of packets into the MLP Tx bundle. Packets are being discarded and the bundle will not be fully operational until the loop is terminated |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

QLLC

%QLLC-3-NOMEM : Not enough memory available

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|---------------------------|---|
| Explanation | There is not enough memory in the system to complete this request. |
| Recommended Action | Add more memory to the router. Otherwise, reduce the configuration or the load on the router. |

%QLLC-3-NO LLC2 : Unable to open an llc2 session

Explanation An LLC2 session could not be established with the destination MAC address.

Recommended Action Verify that the qlc partner statement in the configuration file is correct, and that the partner is on the desired LAN.

%QLLC-3-NULLPTR : [chars] ptr is null

Explanation The specified structure was not configured.

Recommended Action Confirm the configuration commands for the structure.

%QLLC-4-NOQLLC : Unable to open qlc session, current state is [chars]

Explanation A QLLC session could not be established.

Recommended Action Verify that the qlc partner and the qlc xid commands are correct.

%QLLC-3-DIFFPTR : [enet] - Different partner - originally [enet] - now [enet]

Explanation The partner for this QLLC virtual MAC address does not match the MAC address that was defined with the qlc partner command.

Recommended Action Verify that the qlc partner statement in the configuration file is correct.

%QLLC-3-NONULLXID : Couldn't make null xid - [enet] -[enet]

Explanation An attempt to create an IEEE XID failed.

Recommended Action Verify that the qlc partner statement in the configuration file is correct, and that the partner is on the desired LAN.

%QLLC-3-NOXID2 : Couldn't make xid - [enet] -[enet]

Explanation The QLLC XID could not be forwarded to the LAN.

Recommended Action Verify that the qlc partner and the qlc xid commands are correct.

%QLLC-3-BADSTATE : Bad qlc state - [chars] - [enet]

Explanation An invalid LLC primitive was detected.

%QLLC-3-BADSTATE : Bad qllc state - [chars] - [enet]

Recommended Action Verify that the Token Ring ports and any participating LAN devices are configured correctly.

%QLLC-3-NOMACADDR : No lnx entry for macaddr [enet]

Explanation No virtual MAC address was defined for this interface.

Recommended Action Define the virtual MAC address, using either the x25 map qlc or the x25 pvc qlc command.

%QLLC-3-BADOPCODE : Opcode [chars] is invalid

Explanation Either remote source-route bridging or local acknowledgment is configured incorrectly.

Recommended Action Verify that remote source-route bridging and local acknowledgment are configured correctly.

%QLLC-3-IFRAME : [chars]

Explanation An I-Frame was discarded due to network congestion.

Recommended Action Verify that the LAN is not beaconing and that it is not in a congested state. Copy the error message exactly as it appears, and report it to your technical support representative.

%QLLC-3-BADSTATEEVENT : Bad qllc state - [chars] event - [chars] macaddr - [enet]

Explanation The LLC primitive specified placed the router in an invalid state.

Recommended Action Verify that the Token Ring ports and any participating LAN devices are configured correctly.

%QLLC-3-NOPAKENO : Pak enqueue failed

Explanation A packet was not sent to the LAN.

Recommended Action Verify that the LAN partner is configured correctly, and that the partner is on the desired LAN.

%QLLC-3-BADRSRBOPCODE : Bad opcode [hex] from [enet] to [enet]

Explanation Either remote source-route bridging is incorrectly configured, or the other RSRB device is down.

%QLLC-3-BADRSRBOPCODE : Bad opcode [hex] from [enet] to [enet]

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| Recommended Action | Verify that remote source-route bridging is configured correctly with the right version of the IOS software. |
|---------------------------|--|

%QLLC-3-LNXNOTFOUND : lnx_remove_macaddr_hash did not find target lnx

| | |
|--------------------|---|
| Explanation | The qlc srb command was not defined for this interface. |
|--------------------|---|

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| Recommended Action | Add a valid qlc srb statement for this serial interface. |
|---------------------------|--|

%QLLC-3-BADQLLCSTATE : Bad qlc state - [chars]

| | |
|--------------------|---|
| Explanation | An invalid QLLC primitive was detected. |
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| Recommended Action | Verify that the partner QLLC device is configured correctly. |
|---------------------------|--|

%QLLC-3-GENERRMSG : [chars]

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| Explanation | The text string provided with this error message describes the specific QLLC problem. |
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| Recommended Action | Follow the instructions that appear with the error message. Copy the error message exactly as it appears, and report it to your technical support representative. |
|---------------------------|---|

%QLLC-3-BAD_XID : Sna configuration error for [enet]: Lan device is PU2.1, X.25 device is PU2.0 (XID Format 1)

| | |
|--------------------|--|
| Explanation | The IBM Gateway (3172) or front-end processor on the LAN is sending XID Format 3 which is used to communicate with PU2.1 devices. The X.25 device is a PU2.0 (3174) that is configured to send XID Format 1 messages. This is a very rare situation - for example, Revision A5.6 on, and C5.1 on the 3172. A likely cause is that the revision levels on the IBM equipment are incompatible. |
|--------------------|--|

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| Recommended Action | Check the revision levels on the external equipment, and upgrade them if necessary. |
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%QLLC-3-NO_QLLCBUFFER : M bit Reassembly failed - couldn't allocate a packet

| | |
|--------------------|---|
| Explanation | The router ran out of memory to allocate buffers. |
|--------------------|---|

| | |
|---------------------------|---|
| Recommended Action | Make sure that the router configuration is adequate for the service expected of it. You might want to tune the buffer pools, or upgrade to a larger router. At the very least, you will need more memory. |
|---------------------------|---|

%QLLC-3-INCALL_CFG : Incoming call: No QLLC Service Access Point Configured for x.25 subaddress [chars]

| | |
|---------------------------|--|
| Explanation | A remote X.25 device is calling the router for QLLC service using a subaddress that was not configured by the X.25 routing facility. The subaddress was not configured for QLLC service. |
| Recommended Action | Correct the QLLC configuration. Configure only the subaddress on the QLLC service, not the complete X.121 address that the remote X.25 device uses. |

%QLLC-3-INCALL_NO_PARTNER : Incoming call: No partner Mac Address configured - X.25 subaddress [chars]

| | |
|---------------------------|--|
| Explanation | There is an incoming call, but a connection cannot be initiated to a partner since no partner is configured in a qlc dlsw command (for QLLC/DLSw+ only). |
| Recommended Action | Configure a partner for the incoming calling (such as using the qlc dlsw partner command). |

%QLLC-3-PARTNER_MISMATCH : Outgoing call: Partner Mac Address [enet] doesn't match configured partner [enet]

| | |
|---------------------------|--|
| Explanation | A device tried to connect to a QLLC VMAC (from Token Ring, for instance), but the MAC address of that device does not match the partner in the qlc dlsw command. |
| Recommended Action | Correct the QLLC configuration to match the right partner. |

%QLLC-3-QLLCMAP_ERR : Incoming call: QLLC map entry not found

| | |
|---------------------------|---|
| Explanation | A software error in the router code occurred. |
| Recommended Action | Copy the error message exactly as it appears, and report it to your technical support representative. |

%QLLC-3-NO_QSR : No QLLC Service Access Points defined

| | |
|---------------------------|--|
| Explanation | No QLLC services have been configured, even though the router will accept incoming calls for QLLC. |
| Recommended Action | Configure the QLLC service required. |

%QLLC-3-NO_RESOURCE : Incoming Call: Insufficient resources available

| | |
|--------------------|---|
| Explanation | This message is reporting insufficient system memory. |
|--------------------|---|

%QLLC-3-NO_RESOURCE : Incoming Call: Insufficient resources available

Recommended Action Upgrade the memory.

QOS

%QOS-3-DETACH : Failed to detach [chars] [chars] service policy

Explanation The specified type of service policy has failed to detach itself from the attachment point indicated. The service policy will remain attached although repeated attempts to remove such should fail in a similar manner.

Recommended Action LOG_STD_SH_CMD_ACTION(show policy-map [type] <attachment point>)

%QOS-4-SERV_FRAG_POLICY : service-policy [chars] can't be attached without corresponding service-fragment policy on appropriate target first

Explanation For a fragment policy that is being installed check if parent targets have relevant service-fragment class installed. If not then we can not allow fragment policy installation.

Recommended Action Check the parent target to add relevant service-fragment class.

%QOS-6-SUSPEND : Suspending service policy [chars] on [chars] in [chars] direction

Explanation The interface bandwidth is less than the total bandwidth that is required for QoS policy on this interface.

Recommended Action There is no user action required.

%QOS-3-TARGET_INDEX : [chars] [chars] service policy attachment failed to assign index

Explanation The configuration of a service policy has resulted in the failure to generate an internal unique identifier which represents the attachment point (target) of the associated policy map. This is an internal software error.

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

%QOS-3-UNASSIGNED : A [chars] event resulted in an (un)assigned index for [chars] [chars]

| | |
|---------------------------|---|
| Explanation | The configuration of either the addition or removal of the specified entity has resulted in the failure to either assign or remove a previously assigned index from such. This is an internal software error and indicates an out of sync condition if operating in a redundant manner |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QOS-3-ISSU_GTP_CFG_ENHANCE : GTP-AIC configuration has been detected, which is totally different with peer. Delete all GTP-AIC related config to proceed with ISSU/ISSD. After ISSU/ISSD done, config GTP-AIC again.

| | |
|---------------------------|---|
| Explanation | PEER GTP-AIC configuration would be messed up. |
| Recommended Action | Manually remove all GTP-AIC configuration and reinitiate ISSU/ISSD. |

%QOS-6-POLICY_INST_FAILED : Service policy installation failed on [chars]. [chars]. policy:[chars], dir:[chars], ptype:[chars], ctype:[chars]

| | |
|---------------------------|---|
| Explanation | Service policy could not be installed |
| Recommended Action | This is an informational message only. No action is required. |

%QOS-6-POLICY_REM_FAILED : Service policy remove failed on [chars] policy:[chars], dir:[chars], ptype:[chars], ctype:[chars]

| | |
|---------------------------|---|
| Explanation | Service policy could not be removed |
| Recommended Action | This is an informational message only. No action is required. |

%QOS-3-INVALID_PLTYPE : No entry found for pltype : [int] in global service_policy_queue during service-policy deletion.

| | |
|---------------------------|---|
| Explanation | No entry was found for a pltype when un-queue of a service-policy from global service_policy_queue was undergoing. This will result in freeing a service-policy without un-queuing it from global service_policy_queue. |
| Recommended Action | Need to figure out why there was no entry found for a pltype in the global service_policy_queue when passed with a service-policy while deletion. check the traceback for details |

%QOS-3-HA_COLLISION_INVALID : Received collision table of type [int]

Explanation The specified type of collision is an invalid value which indicates that the message received on the standby RP contains erroneous data. This is an internal software error which should result in a reload of the standby RP so that the bulk sync of configuration can be sent once more by the active RP.

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

%QOS-3-HA_COLLISION_SIZE : Received [chars] message, total/unit [int]/[int] [chars]

Explanation The specified type of collision table has been determined to contain a discrepancy between the total message size and the individual table unit that is being decoded on the standby RP. This is an internal software error which should result in a reload of the standby RP so that the bulk sync of configuration can be sent once more by the active RP.

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

%QOS-3-HA_COLLISION_STRING : Received [chars] message, length [int] for string [chars]

Explanation The specified type of collision table contains an individual unit within the message which has an incorrectly encoded string which is used to represent the collision which is being synced from the active RP. This is an internal software error which should result in a reload of the standby RP so that the bulk sync of configuration can be sent once more by the active RP.

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

%QOS-3-COLLISION_TYPE : Type [int] is invalid for collision [chars]

Explanation The specified type of collision is an invalid value which indicates that there is no support for the generation of an internal identifier. This is an internal software error.

%QOS-3-COLLISION_TYPE : Type [int] is invalid for collision [chars]

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

%QOS-3-COLLISION_DELETE : [chars] unable to remove index [hex]

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

%QOS-3-COLLISION_COUNT : [chars] mismatch, count [int]

| | |
|---------------------------|---|
| Explanation | The specified type of collision has detected that although there are no collisions present the count of such indicates otherwise. This is an internal software error. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QOS-6-COLLISION_MAX : Maximum number of collision entries, [int], reached

| | |
|---------------------------|---|
| Explanation | The system limit on the number of collision entries used in assigning unique identifiers for policy and class maps et al. has been reached. This indicates that no further configuration of entities which require additional generation of a unique identifier will be possible. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QOS-3-INDEX_EXISTS : [chars] attempt to add index [hex] [chars]

| | |
|--------------------|---|
| Explanation | The specified entity is unable to add an entry due to the detection of an existing entry with the same index or name. This is an internal software error. |
|--------------------|---|

%QOS-3-INDEX_EXISTS : [chars] attempt to add index [hex] [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show cce cp id [collisions]** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-3-INDEX_DELETE : [chars] unable to remove index [hex]

Explanation The specified entity is unable to removed the specified index. This is an internal software error.

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

%QOS-3-BLT_INDEX : Failed to assign index for target/policy/class/action [int]/[int]/[int]/[chars]

Explanation The configuration of queuing has resulted in the failure to generate an internal unique identifier which represents the queue. This is an internal software error.

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

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

%QOS-4-INVALIDBW : interface [chars]: Not enough bandwidth to configure service-policy

| | |
|---------------------------|---|
| Explanation | The issued interface bandwidth is less than the total bandwidth that is required for QoS policy on this interface. |
| Recommended Action | Reconfigure the service policy for the new issued bandwidth on the interface, or increase the issued interface bandwidth to the required value. There is no user action required. |

%QOS-6-ACTIVATE : Activating service policy [chars] on [chars] in [chars] direction

| | |
|---------------------------|---|
| Explanation | The interface bandwidth is more than the total bandwidth that is required for QoS policy on this interface. |
| Recommended Action | There is no user action required. |

%QOS-6-NON_AGG_WRED : ATM SPA doesn't support true non-aggregate WRED. All non-specified dscp/prec values will be aggregated in default WRED profile

| | |
|---------------------------|--|
| Explanation | ATM SPA has limited hardware capability which is not enough to support traditional WRED. ATM SPA would support 'limited' non-aggregate WRED for the specified dscp/prec values (maximum of 6) and the rest non-specified dscp/prec colors will go to default WRED profile. |
| Recommended Action | There is no user action required. |

%QOS-6-ACTIVATE_NOHW : Activating service policy [chars] in [chars] direction

| | |
|---------------------------|--|
| Explanation | |
| Recommended Action | |

%QOS-3-HA_GET_ARG_NUM : [chars] Failure in getting event identification

| | |
|---------------------------|--|
| Explanation | QoS configuration can't be synced to the standby |
| Recommended Action | Contact your Cisco technical support representative. |

%QOS-3-HA_BULK_SYNC : [chars] Failure in completing bulk sync

| | |
|---------------------------|--|
| Explanation | QoS configuration can't be synced to the standby |
| Recommended Action | Contact your Cisco technical support representative. |

%QOS-3-HA_BULK_SYNC_BEFORE_TIMEOUT : [chars] Failure in completing bulk sync before timeout

Explanation QoS configuration can't be synced to the standby The interface bandwidth is more than the total bandwidth that is required for QoS policy on this interface.

Recommended Action Contact your Cisco technical support representative. There is no user action required.

%QOS-3-HA_MISMATCH : Bulk sync failed for [chars] collisions, space available [int], buffer [int]

Explanation A synchronization attempt between the active and standby RP peers has failed due to the detection of a mismatch in the source and destination sizes of a buffer used in the transport of the collision information to the standby RP. This is an internal software error.

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

%QOS-3-ISSU_COMP : Failed to exchange capability with peer

Explanation The attempt to negotiate version capabilities and the exchange of the peer support has failed. This indicates that QoS is unable to support a redundant operation with the standby RP peer.

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

%QOS-3-MAIN_SUB_POLICY : FR fragmentation is not supported with interface or sub-interface based policies

Explanation On Cisco 7500 series routers, Frame Relay fragmentation is not supported when service policies are configured on the interface or subinterfaces.

Recommended Action Remove the service policy configuration under the interface or subinterfaces and reissue either the class command from Frame-Relay DLCI interface configuration mode or the frame-relay fragment command from map-class configuration mode.

%QOS-3-CFGERR : interface [chars]: configuration failed

Explanation Enough memory is not available to configure feature

%QOS-3-CFGERR : interface [chars]: configuration failed

Recommended Action It is not possible to configure issued command (feature) unless required memory is released by some other means

%QOS-3-VTEMP_MLP_ERR : A service policy cannot be attached to a PPP virtual-access interface when ppp multilink is enabled. A service policy can be attached to a ppp multilink bundle interface only.

Explanation A service policy attached to a virtual-template is usually copied to associated virtual-access interfaces. However, if such a virtual-access interface joins a multilink ppp bundle, the policy is not attached to the virtual-access interface.

Recommended Action This is informational message. No action is required

%QOS-3-VTEMP_VC_ERR : Attaching a service policy to a PPP/PPPoE virtual-access interface is not allowed when another policy is already attached to the vc/pvc to which the PPP/PPPoE virtual-access interface is bound.

Explanation Attaching a service policy to a PPP/PPPoE virtual-access interface is not allowed when another policy is already attached to the vc/pvc to which the PPP/PPPoE virtual-access interface is bound.

Recommended Action Remove the policy attached to the vc/pvc before attaching a new policy to a PPP/PPPoE virtual-access interface

%QOS-3-HQF_FEA_API_FAIL : Feature processing API returned NULL pak with INCOMPLETE flag

Explanation HQF calls feature processing API to get the next packet from the feature, for example Frame-relay fragmentation. The API returns conflicting flags with NULL packet.

Recommended Action Check if the system resources, e.g. packet buffers, are exhausted. Contact technical support

%QOS-3-VTEMP_SUB_ERR : Attaching a service policy to a PPP/PPPoE virtual-access interface is not allowed when another policy is already attached to the subinterface to which the PPP/PPPoE virtual-access interface is bound.

Explanation Attaching a service policy to a PPP/PPPoE virtual-access interface is not allowed when another policy is already attached to the subinterface to which the PPP/PPPoE virtual-access interface is bound.

Recommended Action Remove the policy attached to the subinterface before attaching a new policy to a PPP/PPPoE virtual-access interface

%QOS-3-VTEMP_MAIN_ERR : Attaching a service policy to a PPP/PPPoE virtual-access interface is not allowed when another policy is already attached to the main interface to which the PPP/PPPoE virtual-access interface is bound.

Explanation Attaching a service policy to a PPP/PPPoE virtual-access interface is not allowed when another policy is already attached to the main interface to which the PPP/PPPoE virtual-access interface is bound.

Recommended Action Remove the policy attached to the main interface before attaching a new policy to a PPP/PPPoE virtual-access interface

%QOS-3-HQFPOOLERR : interface [chars]: failed to allocate hqf particle

Explanation The HQF particle pool is empty. It cannot process a router generated packet

Recommended Action Collect show buffer and show policy interface output and send to technical support

%QOS-3-HQFNOPAK : interface [chars]: pak_reparent failed

Explanation pak_reparent has been invoked and failed.

Recommended Action Collect show buffer and show policy interface output and send to technical support

%QOS-3-MULTIPLE_INTERFACES : Load-sharing mode has changed. Queuing functionality may not be supported after this.

Explanation Dynamic interface has changed its route out of different physical interface. It might resolve into multiple interfaces for queuing. HQF functionality will get affected.

Recommended Action Likely scenario is that CEF is returning multiple paths across different interfaces. For those tunnels which has queuing features need unique out-going interface to resolve queuing hierarchy. Common instance is per-prefix load-balancing to per-destination. Need to remove offending configurations. May also need reload to get the queuing in working state

%QOS-3-ATLEAST_ONE_FAILOVER_ERR : Fail-over of dynamic interface [chars] failed

Explanation Dynamic interface has changed its route out of different physical interface and queuing can not set-up data-structures for that new physical interface

Recommended Action One possibility is that new physical interface already has service-policy or some other dynamic interface already has queueing data-structures associated with that physical interface and conjunction of such service-policies are not allowed. Remove one or the other service-policy in that case. If that is not the case then contact technical support

%QOS-3-HQFPAKREQUEUE : interface [chars]: pak_requeue_head has been invoked

Explanation pak_requeue_head() function has been invoked on a packet. One or more packets have been dropped. This is not the normal mode of operation

Recommended Action Collect show buffer and show policy interface output and send to technical support

%QOS-3-INVALID_POLICY : queuing policy at session/tunnel can co-exist only with class-default shaping policy at sub-interface/pvc

Explanation There already may be user-defined flat policy or hierarchical policy at the sub-interface/pvc. With existing of such policy no queuing policy is allowed on session

Recommended Action Make sub-interface/pvc based policy just one level policy with only class-default

%QOS-3-COEX_NOT_ALLWD : queuing policy at session cannot co-exist with service policy at sub-interface/pvc

Explanation There already may be user-defined flat policy or hierarchical policy at the sub-interface/pvc. With existing of such policy no queuing policy is allowed on session

Recommended Action Remove the policy attached to the sub-interface/pvc before attaching a new policy to a session

%QOS-3-BURST_BC_ERR : Burst Bc increased to [dec] bytes

Explanation If Burst BC is less than the default burst size then Burst Bc is increased to AF_DEAFULT_BURST

Recommended Action This is informational message. No action is required

%QOS-3-HQF_QID_ERR : Maximum number of QoS queues ([dec]) reached.

Explanation The system has run out of QoS queue identifiers and cannot allocate any more until existing queues are freed up.

Recommended Action Existing QoS configurations will need to be removed to free up more queue identifiers. For example, remove existing QoS service-policy configurations or modify policy-map templates to have fewer queuing actions.

%QOS-4-LC_STATS_MSG_DROPPED : QoS statistics update message dropped due to [chars]

| | |
|---------------------------|---|
| Explanation | Changes to QoS counters are sent periodically from linecards to the route processor. One of these statistics update messages was discarded because it was inconsistent or because the route processor ran out of message buffers. The packet and bytes counters for a single service-policy may be underreported by show commands and SNMP queries. |
| Recommended Action | This is an informational message only. No action is required. |

%QOS-3-XDRLEN : Invalid XDR length. Type [dec][chars]. XDR/buffer len [dec]/[dec]

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

%QOS-3-BADXDRSLOT : Invalid XDR slot. Type/len/slot [dec]/[dec]/[chars]. XDR at [hex]

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

%QOS-6-NORMAL_BURST_CHANGED_WARN : Illegal normal burst size; it is increased to [int]

| | |
|---------------------------|--|
| Explanation | Configured normal burst size is less than the Rate. It is considered to be illegal and has been reset based on the Rate. |
| Recommended Action | This is an informational message only. No action is required. |

%QOS-6-EXTENDED_BURST_CHANGED_WARN : Illegal extended burst size; it is increased to [int]

| | |
|---------------------------|--|
| Explanation | Configured extended burst size is less than the Rate. It is considered to be illegal and has been reset based on the Rate. |
| Recommended Action | This is an informational message only. No action is required. |

%QOS-4-FO_IN_USE : Releasing feature object with reference count [dec]

| | |
|---------------------------|---|
| Explanation | This is an internal software error. A QoS policy feature object has a stale reference. |
| Recommended Action | If the message recurs, try to isolate the traffic conditions which trigger the message and contact technical support. Provide the output from the show tech-support and show policy-map interface commands. |

%QOS-3-SA_SESSION_FAILOVER_ERR : Fail-over of dynamic SA session to interface [chars] failed

| | |
|---------------------------|--|
| Explanation | Dynamic SA session has changed its route out of different physical interface and queuing can not set-up data-structures for that new physical interface |
| Recommended Action | One possibility is that new physical interface already has service-policy with queuing configured Remove the other service-policy in that case. If that is not the case then contact technical support |

%QOS-4-DYN_SUSPEND : Queueing hierarchy move failed on [chars], suspending policy.

| | |
|---------------------------|---|
| Explanation | A forwarding path change has moved the given queue to a new port where its QoS queuing policy cannot be satisfied. This is likely due to a conflicting policy or insufficient bandwidth on the new port, or simply that a new port has not yet been calculated. The policy has thus been temporarily suspended. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%QOS-6-DYN_INSTALL : Installing suspended policy on [chars].

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

%QOS-4-WRED_QLIMIT_OUT_OF_SYNC : On interface [chars] user-defined wred max threshold higher than default queue-limit

| | |
|--------------------|---|
| Explanation | The user defined random-detect is greater that the default queue-limit for this interface. Some of the random-detect configurations will not function properly due to this anomaly. |
|--------------------|---|

%QOS-4-WRED_QLIMIT_OUT_OF_SYNC : On interface [chars] user-defined wred max threshold higher than default queue-limit

Recommended Action If the random-detect value is configured greater than default queue-limit intentionally then keep it as it is else please investigate and use a random-detect value(s) that will be lower than the default queue-limit.

%QOS-4-HQUEUE_QLIMIT_VALUE_SYNC_ISSUE : The hold-queue value is less than the sum of queue-limit values.

Explanation The hold-queue value is less than the queue-limit configured. This will lead to no-buffer drops instead of tail drops

Recommended Action The hold-queue value should be properly adjusted to prevent no-buffer drops.

%QOS-4-QLIMIT_HQUEUE_VALUE_SYNC_ISSUE : The sum of all queue-limit value is greater than the hold-queue value.

Explanation The hold-queue value is less than the queue-limit configured. This will lead to no-buffer drops instead of tail drops

Recommended Action The hold-queue value should be properly adjusted to prevent no-buffer drops.

%QOS-6-RADIO_MULTI_REM : Remove [chars] policy before removing policy from ([chars])

Explanation Prevent the removal of policies from radio layer if child targets have any queuing policies.

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

%QOS-6-ADAPTIVE_QOS_DISABLED : Adaptive QoS functionality is disabled. Shaper is reset to upper-bound

Explanation Multiple and consecutive reports from peer are not received. This leads to an assumption that the peer has gone away.

Recommended Action Removal and re-application of policy may be required to re-enable the adaptive QoS functionality

RAC

%RAC-3-RACNOIPL : Can not find lease information for interface [chars]

Explanation Internal error - DHCP lease information is missing for the interface

%RAC-3-RACNOIPL : Can not find lease information for interface [chars]

Recommended Action Report the problem and how it can be reproduced to Cisco TAC

%RAC-3-RACNOQ : Can't create RAC work queue

Explanation Internal error - probable cause is insufficient memory resources

Recommended Action Check available memory.

%RAC-3-RACIPL : DHCP is already running on interface [chars]

Explanation The interface already has a DHCP originated address via some other system mechanism

Recommended Action Verify the system configuration

RADIUS

%RADIUS-3-SERVERTYPEMISMATCH : Servers [chars] and [chars] in server group '[chars]' are of different types.

Explanation All the servers in a server group should either be of type standard or non-standard.

Recommended Action Enter **show running-config** command and make sure all the RADIUS servers in the server group printed above are of the same type - either standard or non-standard.

%RADIUS-3-ALLDEADSERVER : Group [chars]: No active radius servers found. Id [dec].

Explanation This error message occurs when all the servers configured in a server group are found to be unresponsive.

Recommended Action Check the network connectivity to the RADIUS servers, and check that the servers are running.

%RADIUS-6-RESETDEADSERVER : Group [chars]: Marked alive as Radius server [chars]:[dec],[dec] configured.

Explanation RADIUS server is now configured in the server group which was previously marked dead.

Recommended Action No action required. The message is informative in nature and tells that the dead server is now configured and up.

%RADIUS-6-SERVERALIVE : Group [chars]: Radius server [chars]:[dec],[dec] is responding again (previously dead).

| | |
|---------------------------|--|
| Explanation | A RADIUS server, which previously was dead, has started responding again. |
| Recommended Action | No action required. This message is informative in nature and tells that the server has come up and running. |

%RADIUS-6-GETROUTES : Retrieving static routes in user [chars]

| | |
|---------------------------|--|
| Explanation | Getting initial static routes from RADIUS, using the given user's profile. |
| Recommended Action | No action required. The message is informative in nature and tells that it is getting the static routes based on user's profile. |

%RADIUS-6-GETPOOLS : Retrieving IP-Pools via user [chars]

| | |
|---------------------------|--|
| Explanation | Getting initial IP-Pool definitions from RADIUS, using the given user's profile. |
| Recommended Action | No action required. |

%RADIUS-3-NOHOSTNAME : Failed to retrieve my hostname.

| | |
|---------------------------|--|
| Explanation | Could not find the router's hostname. A hostname needs to be defined, since it determines the RADIUS profile we will retrieve. |
| Recommended Action | Define a hostname on the router's config. Refer to the hostname configuration section of IOS documentation. |

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

| | |
|---------------------------|---|
| Explanation | Quite likely, we ran out of memory. Other explanations are possible. |
| Recommended Action | If this message recurs, enter show tech-support command and call your technical support representative for assistance. |

%RADIUS-3-IDENTFAIL : Saving of unique accounting ident aborted. Configuration has been modified.

| | |
|---------------------------|---|
| Explanation | The configuration has been modified. We can not save the unique accounting IDENT to nvram. The message is to inform the user that the saving of unique accounting ident is aborted due to the change in configuration. |
| Recommended Action | Save the configuration and try again. If the error persists, Enter show tech-support contact your Cisco technical support representative, and provide the representative with the gathered information for assistance. |

%RADIUS-6-IDENTSAVE : Saving config with new acct ident in nvram.

Explanation Saving an accounting ident in nvram. The message is informative.

Recommended Action No action required.

%RADIUS-3-OVERRUN : Insufficient buffer space [dec] for string value.

Explanation This error occurs due to the insufficient memory allocated to the buffer. The condition could be caused by a software, less likely by a hardware. The traceback and process information is generated due to this condition.

Recommended Action If the error re-occurs, check bug toolkit on Cisco web-site to look for a bug that has symptoms similar to the one occurred. If there is no entry for the problem you faced, collect the system message text exactly as it appears on the console or in the system log. Enter **show tech-support**, and contact your technical support representative, and provide the representative with all the information gathered.

%RADIUS-3-NOSERVERS : No Radius hosts configured or no valid server present in the server group [chars]

Explanation RADIUS is attempting to send a request, but there are no hosts configured to which the request is send.

Recommended Action Configure a host with the 'radius-server' command providing the IP address of the server. Refer to the radius-server host configuration section of IOS documentation.

%RADIUS-3-SECRETDEFINEFAILED : Key definition ignored.

Explanation The user is attempting to store either a corrupted shared secret or memory allocation failed during secret definition. Any existing shared secret will be preserved.

Recommended Action Configure a proper secret. Refer to the shared secret configuration section for RADIUS servers in IOS documentation.

%RADIUS-3-FORMATLONG : Format string too long.Maximum allowed length is [dec].

Explanation The user is attempting to configure a format string with a prefix that is too long.

Recommended Action Enter a shorter string to configure.

%RADIUS-4-NOSERV : Warning: Server [chars]:[dec],[dec] is not defined.

Explanation The given server is not globally defined, please define it.

%RADIUS-4-NOSERV : Warning: Server [chars]:[dec],[dec] is not defined.

Recommended Action Please define the server. Refer to the server configuration section of IOS documentation.

%RADIUS-4-NOSERVNAME : Warning: Server [chars] is not defined.

Explanation The given server name is not globally defined, please define it.

Recommended Action Please define the server. Refer to the new server name configuration section of IOS documentation.

%RADIUS-4-SERVREF : Warning: Server [chars]:[dec],[dec] is still referenced by server group.

Explanation The server being removed is still referenced by a server group. This message appears when server configuration is removed but in a server group it still exists.

Recommended Action Please dereference the server from the server group as soon as possible. Refer to server group configuration section in IOS documentation.

%RADIUS-4-SERVREFNAME : Warning: Server %S is still referenced by server group.

Explanation The server being removed is still referenced by a server group. This message appears when server configuration is removed but in a server group it still exists.

Recommended Action Please dereference the server from the server group as soon as possible. Refer to server group configuration section in IOS documentation.

%RADIUS-3-NOATTRLIST : No attribute-list passed through parser.

Explanation An internal error has occurred. The reason could be hardware or software. The error appears when no attribute list is passed through the parser.

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

%RADIUS-3-INVALIDFORMAT : Invalid Nas Port Format: [chars] %c

Explanation The user is attempting to configure an incorrect format string.

Recommended Action Enter a 32 character string using supported characters only.

%RADIUS-4-BADATTRLIST : Unable to process attribute list.

| | |
|---------------------------|---|
| Explanation | The attribute list is syntactically incorrect. |
| Recommended Action | Please specify the attribute list as a comma- delimited string of integers between 1 and 255. |

%RADIUS-4-NOATTRLISTDEF : Warning: Attribute list [chars] is not defined.

| | |
|---------------------------|---|
| Explanation | The given attribute list is not defined. |
| Recommended Action | Please define the attribute list as soon as possible. |

%RADIUS-3-DATAERROR : Warning: [chars]

| | |
|---------------------------|---|
| Explanation | The given data passed into the Radius subsystem is considered invalid and may result in loss of attributes. |
| Recommended Action | Please collect traceback and contact your technical support representative. |

%RADIUS-3-SOURCEPORTALLOCERROR : Warning: Unable to allocate port [dec]

| | |
|---------------------------|---|
| Explanation | Unable to allocate a certain port, will not have the full range of source ports. This is not supposed to happen, contact support. |
| Recommended Action | Contact support |

%RADIUS-3-CORRUPTCONTEXT : Bad Magic pattern in [chars]:[hex], magic:[hex]!

| | |
|---------------------------|---|
| Explanation | The magic pattern imprinted on the internal hash table data structures in RADIUS subsystem is missing and indicates memory corruption. The memory is getting overwritten by a misbehaving process. The traceback and the process information is generated to the result of the error. |
| Recommended Action | Check bug toolkit on Cisco web-site to look for a bug that has symptoms similar to the one occurred. If there is no entry for the problem you faced, collect the system message text exactly as it appears on the console or in the system log. Enter show tech-support command, contact your technical support representative and provide the representative with the gathered information. |

%RADIUS-3-UNKNOWNAPI : Unknown API type [dec]

| | |
|--------------------|--|
| Explanation | RADIUS code has been invoked using an unknown API type. This is the result of a bug in the RADIUS subsystem. |
|--------------------|--|

%RADIUS-3-UNKNOWNAPI : Unknown API type [dec]

Recommended Action Check bug toolkit on Cisco web-site to look for a bug which has symptoms similar to the one occurred. If there is no entry for the problem you faced, Please collect traceback and contact your technical support representative.

%RADIUS-3-ZEROATTRLEN : Radius attr [dec] len 0

Explanation An internal error has occurred

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

%RADIUS-3-BUFFER_OVERFLOW : Radius I/O buffer has overflowed

Explanation An unusually large number of RADIUS attributes has caused AAA to overflow its RADIUS I/O buffer. The given server is not on the global public servers list. This is an internal consistency error

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

%RADIUS-3-NOACCOUNTINGRESPONSE : Accounting message [chars] for session %*s failed to receive Accounting Response.

Explanation Maximum number of retransmissions is exceeded. The network is not accessible or the RADIUS server is down.

Recommended Action Check the network connectivity to the RADIUS servers, and check that the servers are running. If not able to debug the issue, enter **show running-config** and contact your technical support representative for assistance.

%RADIUS-3-CANNOT_OPEN_SOCKET : Cannot open UDP socket for service [chars]

Explanation The router is unable to open a socket for UDP communications by the indicated service. Most of the time another service might be using the same port.

Recommended Action Check your configuration to make sure that no other services are using the same port. If not able to debug the issue, enter **show running-config** and contact your technical support representative for assistance.

%RADIUS-4-NOPUBLICSERV : Warning: No servers were found in the public server list.

Explanation The given server is not on the global public servers list. This is an internal consistency error.

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

%RADIUS-4-RADIUS_DEAD : RADIUS server [chars]:[int],[int] is not responding.

Explanation The server might not be available to serve request. server has not responded to repeated requests.

Recommended Action Check for the connectivity to server. Check if the RADIUS server is still active. If not able to debug the issue, enter **show running-config** and contact your technical support representative for assistance.

%RADIUS-4-RADIUS_ALIVE : RADIUS server [chars]:[int],[int] is being marked alive.

Explanation A RADIUS server that previously was not responding has responded to a new request or the deadtimer has expired.

Recommended Action No action is required.

%RADIUS-3-MALLOC_FAILED : Insufficient memory : [chars].

Explanation Memory allocation failed due to insufficient memory

Recommended Action No action is required.

%RADIUS-3-IPV4_FIB_SEND_FAILED : Radius ipv4 send failed due to FIB error. Error code: [dec].

Explanation Radius not able to send udp packets as fib failed

Recommended Action No action is required.

%RADIUS-3-INVALID_PACKET : Invalid packet posted to RADIUS.

Explanation Radius not able to process a packet as it in invalid

%RADIUS-3-INVALID_PACKET : Invalid packet posted to RADIUS.

Recommended Action No action is required.

RADIX

%RADIX-3-NOMEMORY : No memory available [chars]

Explanation The system is out of memory.

Recommended Action Try one of these actions to correct the problem: Reduce the number of routes accepted by this router. Upgrade hardware. Use a smaller subset image on run-from-RAM platforms.

%RADIX-3-DELETE : Error deleting trie entry, [chars]

Explanation A software programming error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%RADIX-3-ADDMASK : Error adding mask entry, [chars]

Explanation A software or hardware error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%RADIX-3-BADTREE : Invalid pointer to head of tree, [hex]

Explanation A software programming error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%RADIX-4-ORPHAN : Orphaned mask [hex], refcount=[dec] at [hex], next=[hex]

Explanation A software error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%RADIX-2-INIT : No memory for radix initialization: [chars]

Explanation The system ran out of memory during initialization. This should only occur if an image is too large for the existing dynamic memory.

Recommended Action Use a smaller subset image or upgrade hardware.

RADPROXY

%RADPROXY-3-NULL_FSM_CONTEXT : Encountered a NULL RP context in [chars]

Explanation Encountered a NULL context in RP.

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

%RADPROXY-3-INVALID_FSM_STATE : Encountered an invalid RP state [dec] in [chars]

Explanation An internal RP error occurred.

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

%RADPROXY-3-INVALID_FSM_EVENT : Received invalid RP event [chars] in state [chars]

Explanation An internal RP error occurred.

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

%RADPROXY-3-INIT : Initialisation failure, [chars]

Explanation An internal error occurred during RP initialisation.

%RADPROXY-3-INIT : Initialisation failure, [chars]

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

%RADPROXY-3-MEMORY_CORRUPT : RP Memory magic corrupted

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

%RADPROXY-3-INVALID_MAC : Received invalid MAC [chars] in [chars] from [IP_address] with NAS-IP [IP_address]

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

%RADPROXY-3-MEMORY_LOW : Memory low in RP, terminating session

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

%RADPROXY-3-PROTOCOL_VIOLATION : RP encountered fatal protocol violation

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

RCMD**%RCMD-4-RCPATTEMPTED : Remote copy from [chars] at [chars] denied**

Explanation An attempt was made to connect to a router through RCP, but the router was not configured as an RCP server.

Recommended Action Configure an RCP server.

%RCMD-4-RSHATTEMPTED : Remote shell from [chars] at [chars] denied

Explanation An attempt was made to connect to a router through rsh, but the router was not configured as an rsh server.

Recommended Action Configure an rsh server.

%RCMD-4-RCMDDNSFAIL : DNS hostname/ip address mismatch. [chars] unknown to DNS

Explanation The IP address for an incoming rcmd request is not registered with DNS.

Recommended Action Add the IP address to DNS.

REDUNDANCY through RG_PROTOCOL

- [REDUNDANCY](#)
- [REDUNDANCY_UTILS](#)
- [REGISTRY](#)
- [REPLICATE_OCE](#)
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- [RG_AR](#)
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- [RG_MEDIA](#)
- [RG_PROTOCOL](#)

REDUNDANCY**%REDUNDANCY-2-IPC : [chars] [chars]**

| | |
|---------------------------|---|
| Explanation | An Interprocess Communication (IPC) error occurred. The details about what was attempted and what went wrong will be printed. |
| Recommended Action | Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance. |

%REDUNDANCY-3-MEMORY_DIFF : WARNING, nonsymmetrical configuration: Active has [dec]K Standby has [dec]K

| | |
|---------------------------|---|
| Explanation | The redundant RPs have different memory configurations. |
| Recommended Action | The configuration is allowed but discouraged. |

%REDUNDANCY-3-FSM : [chars]

| | |
|---------------------------|---|
| Explanation | A REDUNDANCY Finite State Machine (FSM) error occurred. The details about what was attempted and what went wrong will be printed. |
| Recommended Action | Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance. |

%REDUNDANCY-3-FSM_ERROR : [chars], Error Code: [dec]

| | |
|---------------------------|---|
| Explanation | A REDUNDANCY Finite State Machine (FSM) error occurred. The details about what was attempted and what went wrong will be printed. |
| Recommended Action | Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance. |

%REDUNDANCY-3-SWITCHOVER : RP switchover ([chars])

| | |
|---------------------------|---|
| Explanation | A REDUNDANCY switchover has occurred. |
| Recommended Action | Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance. |

%REDUNDANCY-3-STANDBY_LOST : Standby processor fault ([chars])

| | |
|---------------------------|---|
| Explanation | The standby processor is no longer available. |
| Recommended Action | Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance. |

%REDUNDANCY-3-PEER_MONITOR : [chars]

| | |
|---------------------------|---|
| Explanation | A REDUNDANCY Peer Monitor error occurred. The details about what was attempted and what went wrong will be printed. |
| Recommended Action | Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance. |

%REDUNDANCY-5-PEER_MONITOR_EVENT : [chars] ([chars][chars]([dec]))

| | |
|---------------------------|---|
| Explanation | A REDUNDANCY Peer Monitor event occurred and reported. The report should help to find out the reason for a switch-over. |
| Recommended Action | Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance. |

%REDUNDANCY-3-REDUNDANCY_ALARMS : [chars]

| | |
|---------------------------|---|
| Explanation | A REDUNDANCY Alarm assertions error occurred. The details about what was attempted and what went wrong will be printed. |
| Recommended Action | Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance. |

%REDUNDANCY-3-CONFIG_SYNC : [chars]

| | |
|---------------------------|---|
| Explanation | A REDUNDANCY config sync error occurred. The details about what was attempted and what went wrong will be printed. |
| Recommended Action | Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance. |

%REDUNDANCY-3-GENERAL : [chars]

| | |
|---------------------------|---|
| Explanation | A REDUNDANCY error occurred. The details about what was attempted and what went wrong will be printed. |
| Recommended Action | Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance. |

%REDUNDANCY-4-RELOADING_STANDBY : Reloading the Standby [chars]

| | |
|---------------------------|---|
| Explanation | The Active has sent a reload IPC request to the Standby peer. If the reload is not successful then the Standby will be power cycled instead. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%REDUNDANCY-4-PEER_DID_NOT_RESPOND : Resetting peer [chars] because it did not respond to verification of HA role.

| | |
|---------------------------|---|
| Explanation | The platform uses the HA hardware lines to perform HA role negotiation at boot time. Whichever controller card becomes the Standby verifies this role via the MBUS with the Active. If the Active does not respond it is reset as it is either hung, or is running an old version of software. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%REDUNDANCY-6-STANDBY_HAS_RELOADED : The Standby [chars] has reloaded; reason: [chars]

| | |
|---------------------------|--|
| Explanation | The Standby peer has reloaded itself to correct a configuration mismatch between the Active and the Standby. The Standby has detected that it is missing configuration for a line card. This has most likely happened because the Standby was reloaded prior to the new card being inserted. |
| Recommended Action | No action is required. |

%REDUNDANCY-6-SWITCHOVERTIME : Time taken to switchover = [dec] milliseconds

| | |
|--------------------|---|
| Explanation | This is how long the Standby peer took to become Active after a failure of the existing Active. |
|--------------------|---|

%REDUNDANCY-6-SWITCHOVERTIME : Time taken to switchover = [dec] milliseconds

Recommended Action No action is required.

%REDUNDANCY-3-EHSAISSU : [chars] failed with error code [[chars]]

Explanation An ISSU related REDUNDANCY error occurred. The details about what was attempted and what went wrong will be printed.

Recommended Action Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance.

REDUNDANCY_UTILS

%REDUNDANCY_UTILS-3-INVALID_UNIT_DESIGNATION : An invalid redundancy designation ([chars]) has been detected.

Explanation The redundancy utility assigns each system a unit designation of either an Active Unit, Standby Unit, or Other Unit, and this designation was found to be invalid in the run-time module associated with the system traceback message. This condition most likely occurred because of a software error. The message text provides more information on the specific nature of the error.

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

REGISTRY

%REGISTRY-3-SEQ_LIST_OVERWRITE : Attempt made to overwrite a set sequence function ([chars])

Explanation A single function can be set as a callback for a specified sequence number for a sequenced list registry. This message indicates that an attempt to set a new callback has failed because a callback function has already been set for this sequence number.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%REGISTRY-3-STUB_CHK_OVERWRITE : Attempt made to overwrite a set stub function in [chars].

Explanation A single function can be set as a callback for when a stub w/ check registry is invoked. This message indicates that an attempt to set a new callback has failed because a callback function has already been set.

%REGISTRY-3-STUB_CHK_OVERWRITE : Attempt made to overwrite a set stub function in [chars].

| | |
|---------------------------|---|
| Recommended Action | Copy the error message exactly as it appears, and report it to your technical support representative. |
|---------------------------|---|

%REGISTRY-3-FASTCASE_OUT_OF_BOUNDS : Attempt made in [chars] to register with out of bounds key.

| | |
|--------------------|---|
| Explanation | In FASTCASE registry the key has to be smaller than the size specified when the registry was created. This message indicates that an attempt was made to register with a key out of bounds. |
|--------------------|---|

| | |
|---------------------------|---|
| Recommended Action | Copy the error message exactly as it appears, and report it to your technical support representative. |
|---------------------------|---|

%REGISTRY-3-REG_SUSPEND : Registry of type SUSPEND called when suspends are not allowed.

| | |
|--------------------|---|
| Explanation | When process blocking has been disabled either using raise_interrupt_level or assign_blocking_disabled, a remote registry of type SUSPEND has been invoked. |
|--------------------|---|

| | |
|---------------------------|---|
| Recommended Action | Copy the error message exactly as it appears, and report it to your technical support representative. |
|---------------------------|---|

%REGISTRY-3-REG_FLAG_ERR : Invalid combination of registry flag and scheduler control : [chars]

| | |
|--------------------|---|
| Explanation | When process blocking has been disabled either using raise_interrupt_level or assign_blocking_disabled, a remote registry with flags REG_FLAG_DATA_SAFE/REG_FLAG_PEER has been invoked. |
|--------------------|---|

| | |
|---------------------------|---|
| Recommended Action | Copy the error message exactly as it appears, and report it to your technical support representative. |
|---------------------------|---|

%REGISTRY-2-REG_FLAG_DEADLOCK : Registry call to [chars] timed out due to deadlock

| | |
|--------------------|---|
| Explanation | When a remote registry is not serviced within 25 seconds, the remote process (and presumably the entire system) is deadlocked. This message is printed when the deadlock is broken by a timeout |
|--------------------|---|

| | |
|---------------------------|---|
| Recommended Action | Copy the error message exactly as it appears, and report it to your technical support representative. |
|---------------------------|---|

%REGISTRY-2-REG_PARSE_ERROR : [chars]: Could not parse notification [chars] : error/no. of items = [dec]

| | |
|--------------------|---|
| Explanation | Registry library is unable to parse notification received from name server. This could be for several reasons: a) There is a bug in sscanf b) The notification block is corrupted c) The pathname published to the name server is invalid This is a serious issue that affects inter-process communication. |
|--------------------|---|

%REGISTRY-2-REG_PARSE_ERROR : [chars]: Could not parse notification [chars] : error/no. of items = [dec]

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%REGISTRY-3-REG_XDR : [chars]

Explanation There was an error while marshalling a parameter to a remote (inter-process) registry call

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

REPLICATE_OCE

%REPLICATE_OCE-3-NETWORK_GET_FAIL : MPLS Multicast can not get network offset: datagram [hex]; network [hex]

Explanation MPLS failed to find a suitable packet network offset

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%REPLICATE_OCE-3-NETWORK_SET_FAIL : MPLS Multicast can not set network offset: datagram [hex]; length [dec]; offset [dec]

Explanation MPLS failed to set offset within packet

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

%REPLICATE_OCE-6-PAK_TOO_SHORT : Packet too short, datagram size [dec], tl [dec]

Explanation An IP packet which is too short was received

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

%REPLICATE_OCE-3-REPLICATE_PATH_WALK_FAIL : [chars] [dec]

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

%REPLICATE_OCE-3-REPLICATE_INIT_INSUFFICIENT_PARTICLE_SIZE : Platform particle size [dec] may be insufficient for Label Switched multicast; Minimum particle size recommended is [dec]; Replicate packets may not be forwarded

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

RFMGR_SYSLOG

%RFMGR_SYSLOG-4-DCA_CHANNEL_LIST_EMPTY : The DCA Channel list is empty for rf profile [chars]

| | |
|---------------------------|---|
| Explanation | DCA Channel list is empty It affects Channel Assignment to AP |
| Recommended Action | Please add channels to DCA List |

RFS

%RFS-3-CLIENT_REG : RFS Client ([dec]) Registration failed

| | |
|---------------------------|--|
| Explanation | RFS ISSU client registration failed |
| Recommended Action | Enter the following command:'show issu client' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why no uid with this value found registered in ISSU Database |

%RFS-3-ENTITY_REG : RFS Entity ([dec]) Registration failed

| | |
|--------------------|--|
| Explanation | RFS ISSU entity failed to register with ISSU |
|--------------------|--|

%RFS-3-ENTITY_REG : RFS Entity ([dec]) Registration failed

| | |
|---------------------------|---|
| Recommended Action | Enter the following command: 'show issu entities' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this entity failed to register |
|---------------------------|---|

%RFS-3-MSGTYPE_REG : RFS Msg Type for Entity ([dec]) Registration failed

| | |
|--------------------|---------------------------------------|
| Explanation | RFS ISSU Msg Type registration failed |
|--------------------|---------------------------------------|

| | |
|---------------------------|--|
| Recommended Action | Enter the following commands: 'show issu entities', 'show issu message types' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this message types failed to register |
|---------------------------|--|

%RFS-3-MSGGROUP_REG : RFS Msg Group ([dec]) for Entity ([dec]) Registration failed

| | |
|--------------------|--|
| Explanation | RFS ISSU Msg Group registration failed |
|--------------------|--|

| | |
|---------------------------|--|
| Recommended Action | Enter the following commands: 'show issu message groups', and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this message group failed to register |
|---------------------------|--|

%RFS-3-CAPTYPE_REG : RFS Cap Type for Entity ([dec]) Registration failed

| | |
|--------------------|---------------------------------------|
| Explanation | RFS ISSU Cap Type registration failed |
|--------------------|---------------------------------------|

| | |
|---------------------------|---|
| Recommended Action | Enter the following commands: 'show issu capability types' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this capability type failed to register |
|---------------------------|---|

%RFS-3-CAPENTRY_REG : RFS Cap Entry ([dec]) for Entity ([dec]) Registration failed

| | |
|--------------------|--|
| Explanation | RFS ISSU Cap Entry registration failed |
|--------------------|--|

| | |
|---------------------------|--|
| Recommended Action | Enter the following commands: show issu capability entries and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this capability entry failed to register |
|---------------------------|--|

%RFS-3-CAPGROUP_REG : RFS Cap Group ([dec]) for Entity ([dec]) Registration failed

| | |
|--------------------|--|
| Explanation | RFS ISSU Cap Group registration failed |
|--------------------|--|

| | |
|---------------------------|---|
| Recommended Action | Enter the following commands: show issu capability groups and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this capability group failed to register |
|---------------------------|---|

%RFS-3-CLIENT_SESSION_REG : RFS ISSU client shared msg session for entity ([dec]) registration failed

| | |
|---------------------------|--|
| Explanation | RFS ISSU client shared msg session registration failed |
| Recommended Action | Enter the following commands: show issu sessions and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this shared message session failed to register |

%RFS-3-CLIENT_SESSION_UNREG : RFS session ([dec]) Un-Registration failed

| | |
|---------------------------|---|
| Explanation | RFS ISSU client session un-registration failed |
| Recommended Action | Enter the following commands: show issu sessions and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client session failed to un-register |

%RFS-3-NEGO_SESSION_REG : RFS nego session for Entity ([dec]) Registration failed

| | |
|---------------------------|--|
| Explanation | RFS ISSU shared nego session registration failed |
| Recommended Action | Enter the following commands: 'show issu sessions', 'show issu entities' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation session failed to register |

%RFS-3-NEGO_SESSION_UNREG : RFS session ([dec]) Un-Registration failed

| | |
|---------------------------|---|
| Explanation | RFS ISSU shared nego session un-registration failed |
| Recommended Action | Enter the following commands: 'show issu sessions' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation session failed to un-register |

%RFS-3-START_NEGO_SESSION : RFS nego ([dec]:[dec]) to [[chars]:[hex]] failed: [[chars]]

| | |
|---------------------------|---|
| Explanation | RFS ISSU start shared nego session failed |
| Recommended Action | Enter the following commands: 'show issu sessions' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation session failed to start |

%RFS-3-NEGO_COMP : RFS nego is not compatible ([dec])

| | |
|---------------------------|---|
| Explanation | RFS ISSU start shared nego session failed |
| Recommended Action | Enter the following commands: 'show issu sessions' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation session is not compatible |

%RFS-3-SEND_NEGO_MESSAGE : RFS send nego message ([IPV6 address]) failed

| | |
|---------------------------|---|
| Explanation | RFS ISSU send nego message failed |
| Recommended Action | Enter the following commands: 'show issu session' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation message failed |

%RFS-3-RECEIVE_NEGO_FAILED : RFS receive nego message ([IPV6 address]) failed

| | |
|---------------------------|---|
| Explanation | RFS ISSU receive nego message failed |
| Recommended Action | Enter the following commands: 'show issu session' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation message failed |

%RFS-3-RECEIVE_NEGO_NOT_DONE : RFS receive nego message is not done ([dec])

| | |
|---------------------------|---|
| Explanation | RFS ISSU receive nego message is not done |
| Recommended Action | Enter the following commands: show issu session and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation failed to complete |

%RFS-3-IPC_GET_BUFFER : RFS issu ipc get buffer failed

| | |
|---------------------------|---|
| Explanation | RFS ISSU ipc get buffer failed |
| Recommended Action | Enter the following commands: 'show proc mem' or 'show buffs' to check if memory or buffer is full. shutdown unused tasks or reset cards usually can recover those memory leak problem. Copy the error and send it to TAC if those actions do not help. |

%RFS-3-REG_PORT : RFS reg port ([dec]) failed

| | |
|---------------------------|---|
| Explanation | RFS ISSU reg port failed |
| Recommended Action | Enter the following commands: show ipc port and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this port failed to register |

%RFS-3-LOCATE_PORT : RFS locates port ([chars]) failed

| | |
|---------------------------|---|
| Explanation | RFS ISSU locates port failed |
| Recommended Action | Enter the following commands: show ipc port and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this ipc port could not be located |

%RFS-3-OPEN_CLIENT_PORT : RFS open client port ([chars]) failed. Reason:[chars]

| | |
|---------------------------|--|
| Explanation | RFS ISSU open client port failed |
| Recommended Action | Enter the following commands: show ipc port and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this ipc port could not be opened |

%RFS-3-OPEN_SERVER_PORT : RFS open server port ([chars]) failed

| | |
|---------------------------|--|
| Explanation | RFS ISSU open server port failed |
| Recommended Action | Enter the following commands: show ipc port and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this ipc port could not be opened |

%RFS-3-CREATE_CLIENT_PORT : RFS create client port ([chars]) failed

| | |
|---------------------------|---|
| Explanation | RFS ISSU create client port failed |
| Recommended Action | Enter the following commands: show ipc port and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this ipc port could not be created |

%RFS-3-CREATE_SERVER_PORT : RFS create server port ([chars]) failed

| | |
|---------------------------|---|
| Explanation | RFS ISSU create server port failed |
| Recommended Action | Enter the following commands: show ipc port and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this ipc port could not be created |

%RFS-3-RFS_ISSU_START_SESSION : RFS create rfs_issu_start_session watch boolean failed

| | |
|---------------------------|---|
| Explanation | RFS ISSU create rfs_issu_start_session watch boolean failed |
| Recommended Action | Copy the error and send it to TAC. TAC team can contact the file-systems team to check why this ipc port could not be created |

%RFS-3-RFS_ISSU_START_PORT : RFS create rfs_issu_start_port watch boolean failed

| | |
|---------------------------|--|
| Explanation | RFS ISSU create rfs_issu_start_port watch boolean failed |
| Recommended Action | Enter the following commands: show proc mem and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this watched boolean could not be created |

%RFS-3-RFS_ISSU_NEGO_PROCESS : RFS create rfs_issu_start_port watch boolean failed

| | |
|---------------------------|--|
| Explanation | RFS ISSU create nego process failed |
| Recommended Action | Enter the following commands: show proc mem and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this watched boolean could not be created |

%RFS-3-MSG_MTU : RFS Client ([dec]) get msg mtu failed. Error = [dec]

| | |
|---------------------------|--|
| Explanation | RFS ISSU client get msg mtu failed |
| Recommended Action | Enter the following commands: show issu fsm, show issu ses and copy the error and send it to TAC. TAC team can contact the file-systems team to check why get message mtu failed |

%RFS-3-MSG_XMIT : RFS Client ([dec]) on session ([dec]) to seat [[hex]] failed send transformation with error[[chars]]

| | |
|---------------------------|---|
| Explanation | RFS ISSU client send msg failed |
| Recommended Action | Enter the following commands: show issu sessions and copy the error and send it to TAC. TAC team can contact the file-systems team to check why send message for this client failed |

%RFS-3-MSG_RCV : RFS Client ([dec]) on session ([dec]) to seat [[hex]] failed receive transformation with error[[chars]]

| | |
|---------------------------|--|
| Explanation | RFS ISSU client receive msg failed |
| Recommended Action | Enter the following commands: show issu sessions and copy the error and send it to TAC. TAC team can contact the file-systems team to check why receive message for this client failed |

%RFS-3-UNREG_ENTITY : RFS ISSU Client unreg entity failed.

| | |
|---------------------------|--|
| Explanation | RFS ISSU client unreg entity failed |
| Recommended Action | Enter the following command: 'show issu entities' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this entity failed to un-register |

%RFS-3-RFS_ISSU_CLIENT_OR_ENTITY_ID : RFS ISSU couldnt find client/entity id in peer.

| | |
|--------------------|---|
| Explanation | RFS ISSU couldnt find client/entity id in peer. |
|--------------------|---|

%RFS-3-RFS_ISSU_CLIENT_OR_ENTITY_ID : RFS ISSU couldnt find client/entity id in peer.

| | |
|---------------------------|---|
| Recommended Action | Enter the following command: 'show issu entities' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client/entity id couldnt find in peer |
|---------------------------|---|

%RFS-3-MSG_GET_NEGO_VER : RFS Client ([dec]) get msg negotiated version failed. Error = [dec]

| | |
|---------------------------|---|
| Explanation | RFS ISSU client get msg negotiated version failed |
| Recommended Action | Enter the following commands: show issu fsm, show issu ses and copy the error and send it to TAC. TAC team can contact the file-systems team to check why get message negotiated version failed |

%RFS-3-MSG_INCOMP : [chars](): msg_type [[dec]] under session [[dec]] is incompatible

| | |
|---------------------------|--|
| Explanation | The message types are incompatible under ISSU |
| Recommended Action | Enter the following command: show issu message types 110 and copy the output and send it to TAC. TAC team can contact the file-systems team to check why messages are incompatible |

%RFS-3-RFS_RF_PROG_ERR : Failed to send the bulk sync notification done. Error ([dec]).

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

%RFS-3-RFS_RF_PROG_NOT_SENT_ERR : [chars].

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

%RFS-3-RFS_BOOL_CREATE_ERR : [chars].

| | |
|--------------------|--|
| Explanation | The RFS RF client has error in creating watched boolean. |
|--------------------|--|

%RFS-3-RFS_BOOL_CREATE_ERR : [chars].

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

RG_AR

%RG_AR-3-NOPROCESS : Unable to create process for [chars].

| | |
|---------------------------|--|
| Explanation | Quite likely, we ran out of memory. Other explanations are possible.;msgdef_recommended_action(If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative. |
| Recommended Action | If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative. |

%RG_AR-3-NOPEER : Peer does not exist for RG ID = ([dec]) with error code = ([dec])

| | |
|---------------------------|---|
| Explanation | Failures in communication with peer |
| Recommended Action | Make sure that there are no configuration errors. |

RG_FAULTS

%RG_FAULTS-6-PRICHANGE : RG Infra RG[[dec]] Priority update. new priority [[dec]] old priority [[dec]] [chars]

| | |
|---------------------------|--|
| Explanation | The runtime priority of the group was updated |
| Recommended Action | Look at rg_infra trace for the cause for priority change |

%RG_FAULTS-6-PRICONFCHANGE : RG Infra RG[[dec]] Priority configuration changed. New runtime priority:[[dec]]

| | |
|---------------------------|--|
| Explanation | The configured priority changed, runtime priority was affected |
| Recommended Action | No action need to be taken |

%RG_FAULTS-3-NOPROCESS : Unable to create a new process for [chars].

| | |
|---------------------------|--|
| Explanation | Quite likely, we ran out of memory. Other explanations are possible.;msgdef_recommended_action(If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative. |
| Recommended Action | If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative. |

RG_MEDIA

%RG_MEDIA-3-NOPROCESS : Unable to create process for [chars].

| | |
|---------------------------|--|
| Explanation | Quite likely, we ran out of memory. Other explanations are possible.;msgdef_recommended_action(If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative. |
| Recommended Action | If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative. |

%RG_MEDIA-3-NOSOCKET : Unable to open socket

| | |
|---------------------------|--|
| Explanation | The system was unable to initialize an IP connection for RG Protocol |
| Recommended Action | Make sure that there is at least one interface configured to run IP. |

%RG_MEDIA-4-BADSEQ : Group [dec]: Sequence number larger than expected - indicates packet loss

| | |
|---------------------------|---|
| Explanation | Sequence number expected from peer is too big, this usually indicates packet loss |
| Recommended Action | Check for connectivity problems between the 2 peers. |

%RG_MEDIA-3-INVALIDPLATFORM : Unsupported Platform

| | |
|---------------------------|---|
| Explanation | The peer platform is unsupported as a RG-pair |
| Recommended Action | Only like platforms can be configured as a RG pair. |

%RG_MEDIA-3-TIMEREXPIRED : RG id [dec] Hello Timer Expired.

| | |
|---------------------------|--|
| Explanation | This router did not receive hello message from the peer within the configured hold time. This may result in a role change. |
| Recommended Action | Enter show tech-support, show history commands, collect all the information and error message and report it to your technical support representative. |

RG_PROTOCOL

%RG_PROTOCOL-3-NOPROCESS : Unable to create process for [chars].

| | |
|---------------------------|--|
| Explanation | Quite likely, we ran out of memory. Other explanations are possible.;msgdef_recommended_action(If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative. |
| Recommended Action | If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative. |

%RG_PROTOCOL-5-ROLECHANGE : RG id [dec] role change from [chars] to [chars]

| | |
|---------------------------|--|
| Explanation | RG role (Init/Standby/Active) has been changed |
| Recommended Action | No action is required. |

%RG_PROTOCOL-3-UNEXPECTEDACTIVE : RG id [dec] unexpected Active peer [IP_address]

| | |
|---------------------------|---|
| Explanation | An unexpected Active peer has been detected via control interface; there are 2 Active RGs in the redundancy group |
| Recommended Action | If this is not a transient state, check for connectivity problems or inconsistency of rg protocol timer configuration between the peers |

%RG_PROTOCOL-4-UNEXPECTEDSTANDBY : RG id [dec] unexpected Standby peer [IP_address]

| | |
|---------------------------|---|
| Explanation | An unexpected Standby peer has been detected via control interface; there are 2 Standby RGs in the redundancy group |
| Recommended Action | If this is not a transient state, check for connectivity problems or inconsistency of rg protocol timer configuration between the peers |

RG_TRANSPORT through RRM_MGR_TRACE_MESSAGE

- [RG_TRANSPORT](#)
- [RG_VP](#)
- [RMON](#)
- [ROLLBACK_ISSU](#)
- [ROUITEMAP](#)
- [RPL](#)
- [RRM_CLIENT](#)
- [RRM_COMMON_TRACE_MESSAGE](#)
- [RRM_MGR_DB](#)
- [RRM_MGR_TRACE_MESSAGE](#)

RG_TRANSPORT

%RG_TRANSPORT-3-NOPROCESS : Unable to create process for [chars].

| | |
|---------------------------|--|
| Explanation | Quite likely, we ran out of memory. Other explanations are possible.;msgdef_recommended_action(If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative. |
| Recommended Action | If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative. |

%RG_TRANSPORT-3-TRANSFAIL : Negotiation failure with error code: [dec]

| | |
|---------------------------|---|
| Explanation | The query_status in msg is not RG_TRANS_SUCCESS |
| Recommended Action | Make sure that there are no configuration errors. |

RG_VP**%RG_VP-3-NOPROCESS : Unable to create process for [chars].**

| | |
|---------------------------|--|
| Explanation | Quite likely, we ran out of memory. Other explanations are possible.;msgdef_recommended_action(If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative. |
| Recommended Action | If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative. |

%RG_VP-6-STANDBY_READY : RG group [dec] Standby router is in SSO state

| | |
|---------------------------|-----------------------------|
| Explanation | Indicates standby readiness |
| Recommended Action | No action is required. |

%RG_VP-6-BULK_SYNC_DONE : RG group [dec] BULK SYNC to standby complete.

| | |
|---------------------------|---------------------------------------|
| Explanation | Indicagtes Standby bulk sync complete |
| Recommended Action | No action is required. |

RMON**%RMON-5-RISINGTRAP : Rising threshold has been crossed because the value of [chars] exceeded the rising-threshold value [dec]**

| | |
|---------------------------|--|
| Explanation | A Rising Event will be generated.The value of the specified MIB object has exceeded the rising threshold value as configured by the rmon alarm command for the specified object |
| Recommended Action | Take appropriate action on the specified object. |

%RMON-5-FALLINGTRAP : Falling threshold has been crossed because the value of [chars] has fallen below the falling-threshold value [dec]

| | |
|---------------------------|--|
| Explanation | A Falling Event will be generated.The value of the specified MIB object has fallen below the falling threshold value as configured by the rmon alarm command for the specified object |
| Recommended Action | Take appropriate action on the specified MIB object. |

%RMON-5-HCRISINGTRAP : Rising trap is generated because the value of [chars] exceeded the rising-threshold hc value [int]

Explanation A Rising Trap has been generated. The value of the specified MIB object has exceeded the rising threshold value as configured by the **rmon hc-alarms** command for the specified object

Recommended Action Take appropriate action on the specified object.

%RMON-5-HCFALLINGTRAP : Falling trap is generated because the value of [chars] has fallen below the falling-threshold hc value [int]

Explanation A Falling Trap has been generated. The value of the specified MIB object has fallen below the falling threshold value as configured by the **rmon hc-alarms** command for the specified object

Recommended Action Take appropriate action on the specified MIB object.

ROLLBACK_ISSU

%ROLLBACK_ISSU-2-INIT : Rollback ISSU client initialization failed to [chars]. Error: [dec] ([chars])

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

%ROLLBACK_ISSU-3-TRANSFORM_FAIL : Rollback ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])

Explanation The Rollback 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 Rollback state between the active device and the standby device is not identical.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%ROLLBACK_ISSU-3-MSG_NOT_OK : Rollback ISSU client 'Message Type [dec]' is not compatible

| | |
|---------------------------|---|
| Explanation | The Rollback ISSU client received an incompatible message from the peer device. The message cannot be processed. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>) |

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

| | |
|---------------------------|---|
| Explanation | The Rollback ISSU client failed to calculate the MTU for the specified message. The Rollback ISSU client is not able to send the message to the standby device. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>) |

%ROLLBACK_ISSU-3-INVALID_SESSION : Rollback ISSU client does not have a valid registered session.

| | |
|---------------------------|---|
| Explanation | The Rollback ISSU client does not have a valid registered session. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>) |

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

| | |
|---------------------------|--|
| Explanation | The Rollback 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 | LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>) |

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

| | |
|---------------------------|--|
| Explanation | The Rollback ISSU client failed to unregister session information. |
| Recommended Action | LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>) |

%ROLLBACK_ISSU-2-SESSION_NEGO_FAIL_START : Failed to start Rollback ISSU session negotiation. Error: [dec] ([chars])

| | |
|--------------------|--|
| Explanation | The Rollback ISSU client failed to start session negotiation. If a problem occurs with the ISSU session start, the standby device cannot be brought up properly. |
|--------------------|--|

%ROLLBACK_ISSU-2-SESSION_NEGO_FAIL_START : Failed to start Rollback ISSU session negotiation. Error: [dec] ([chars])

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id>)

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

Explanation The Rollback 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 LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%ROLLBACK_ISSU-2-GET_BUFFER : Rollback ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation The Rollback ISSU client failed to get buffer space for building a negotiation message. A negotiation message cannot be sent to the standby device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

ROUTEMAP

%ROUTEMAP-4-BADTRACKOBJECTTYPE : can't track this type of object

Explanation Route maps only support STATE type track objects. This object is not a STATE object

Recommended Action Reconfigure the track object to make it a STATE object.

RPL

%RPL-3-CONFIG_ERROR : RPL [chars] configuration failed: [chars] [chars] code [dec]

Explanation This Error message would be encountered when trying to configure rpl through api.

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

%RPL-3-CHUNK_ERROR : [chars]

| | |
|---------------------------|---|
| Explanation | This Error message would be encountered when trying to 1. access chunk or chunk element when they are not valid. 2. lock failure on chunk element. |
| Recommended Action | Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%RPL-3-MALFORMEDMSG : Malformed [chars] received from: [IPv6 address]

| | |
|---------------------------|--|
| Explanation | This Error message would be encountered if a malformed RPL Control message is received |
| Recommended Action | Informational |

RRM_CLIENT

%RRM_CLIENT-3-CHD_INV_RF_PROF : Coverage message received profile from [chars]

| | |
|---------------------------|--|
| Explanation | CHD message was received for a radio which has a non existent RF Profile Configured. |
| Recommended Action | Can be seen during configuration changes,if seen otherwise Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. |

%RRM_CLIENT-3-EWLC_EXEC_ERR : %% Error: AP [chars] MAC: [hex][hex].[hex][hex].[hex][hex] Slot-id [dec] - [chars]

| | |
|---------------------------|------------------------------|
| Explanation | Improper arguments or config |
| Recommended Action | Arguments to be changed |

%RRM_CLIENT-3-RRM_AP_DB_ERR : Load profile violation on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec] Channel load in percentage: [dec] Number of stations: [dec]Load profile recovery on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec]Interference profile violation on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec] Interference in percentage: [dec] On channel: [dec]Interference profile recovery on [chars] AP [hex][hex].[hex][hex].[hex][hex]: Slot: [dec]Noise profile violation on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec] Noise: [dec] dBm On channel: [dec]Noise profile recovery on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec]Coverage profile violation on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec] Failed client count: [dec] Total client count: [dec]Coverage profile recovery on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec]RRM failed to create [chars] timerUnable to find AP [hex][hex].[hex][hex].[hex][hex] entry in the database, could not process [chars]

| | |
|---------------------------|---|
| Explanation | Load profile violationLoad profile recoveryInterference profile violationInterference profile recoveryNoise profile violationNoise profile recoveryCoverage profile violationCoverage profile recoveryFailed to create timerThe operation being performed for the AP failed because the internal entry for the AP was not found. It is possible that the AP has been removed from the controller. |
| Recommended Action | Use the 'show ap summary' command to determine if the AP is still joined to the controller. If it is not, the message may be ignored. If it is still joined, restart the AP to ensure that it has the latest configuration and contact technical assistance if the problem recurs. |

%RRM_CLIENT-3-HA_CONFIG_SYNC : Invalid slot number [dec] for AP [hex]:[hex]:[hex]:[hex]:[hex]:[hex] could not process [chars]RRM HA Config tables not yet synced: [chars]

| | |
|---------------------------|---|
| Explanation | AP included wrong slot numberSome critical RRM configuration was found to be missing, \ immediately after switchover. |
| Recommended Action | If the message appears persistently, RRM may not function as configured. \ System reboot will be required to restore RRM function |

%RRM_CLIENT-3-RRM_CONFIG : RRM Config Notification: [chars]

| | |
|---------------------------|--|
| Explanation | Some critical RRM configuration still not populated. |
| Recommended Action | If the message appears persistently, \ for more than 8 times for each phy type, \ RRM may not function as configured. \ System reboot will be required to restore RRM function |

RRM_COMMON_TRACE_MESSAGE

%RRM_COMMON_TRACE_MESSAGE-3-RRM_COMMON_INVALID_SLOT : Error encountered: [chars]

| | |
|---------------------------|--|
| Explanation | Invalid slot identifier is found while processing RRM packet |
| Recommended Action | Please report the error to technical support representative |

RRM_MGR_DB

%RRM_MGR_DB-5-DUPLICATE_IP_WLC : WLC: [chars] having duplicate IP: [dec].[dec].[dec].[dec] detected while \ processing RRM pkt. IP address of the conflicting WLC: [chars] should \ be changed immediately to avoid impact on RRM functionality

Explanation Another WLC in the rf-network is having duplicate IP, it will \ impact RRM functionality for the conflicting controllers

Recommended Action IP address of the conflicting controller \ should be changed immediately

RRM_MGR_TRACE_MESSAGE

%RRM_MGR_TRACE_MESSAGE-3-EWLC_EXEC_ERR : Error in [chars]%% Error: [chars]

Explanation General ewlc Error Message.Improper arguments or config

Recommended Action Arguments to be changed

%RRM_MGR_TRACE_MESSAGE-3-HA_CONFIG_SYNC : Unable to register with platform to receive packets - error [dec] Unable to register with platform to get Management IP Address Change Notification - error [dec]. RRM failed to create [chars] timerRRM HA Config tables not yet synced: [chars]

Explanation Unable to register with platform to receive packetsUnable to register with platform to get Management Interface IP Address Change Notification. Failed to create timerSome critical RRM configuration was found to be missing, \ immediately after switchover.

Recommended Action If the message appears persistently, RRM may not function as configured. \ System reboot will be required to restore RRM function
