RSCMSM through SWPORT_PROXY

RSCMSM through SBC_HA

- RSCMSM

- RSRB

- RSVP

- RSVP_SYNC_ISSU

- RTMGR

- RTT

- SADB

- SBC

- SBC_CFG

- SBC_HA

RSCMSM

%RSCMSM-3-NO_SUCH_INTERFACE : [chars]: The interface doesn't exist

Explanation   The interface for resource measurement doesn't exist at the time of the operation.

%RSCMSM-3-NO_SUCH_INTERFACE : [chars]: The interface doesn't exist

Recommended Action	Check the configuration to see if that interface is there

%RSCMSM-5-TEST_ALREADY_RUNNING : One test is already running.

Explanation	there is already one test running at the same time.
Recommended Action	Please wait for the completeness of the running test before starting another test.

%RSCMSM-3-NO_LIST_CREATED : [chars]: Cannot create interface-based rsc list.

Explanation	This failure is due to the list create operation.
Recommended Action	Please check the memory at the moment.

RSRB

%RSRB-4-OPTNULL : Remopened and t NULL

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

%RSRB-4-PEERSTAT : Peer [chars], wrong state [dec]

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

%RSRB-4-CONNSTAT : Peer [chars], IFin, bad connection state [dec]

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

%RSRB-4-BADLEN : Peer [chars], [chars], bad length [dec], trn [dec]

Explanation	An internal software error occurred.

%RSRB-4-BADLEN : Peer [chars], [chars], bad length [dec], trn [dec]

Recommended Action	If either message recurs, call your technical support representative for assistance.

%RSRB-3-BADVERSIONIF : IFin: [chars]: version mismatch, mine [dec], theirs [dec]

Explanation	The remote end of a direct serial peer is running the wrong version of the system software. Either the local end, the remote end, or both are not up to date.
Recommended Action	Call your technical support representative for an update.

%RSRB-3-BADVERSIONFST : FSTin: [chars]: version mismatch, mine [dec], theirs [dec]

Explanation	The remote end of a direct serial peer is running the wrong version of the system software. Either the local end, the remote end, or both are not up to date.
Recommended Action	Call your technical support representative for an update.

%RSRB-3-BADVERSIONTCP : [chars]: [dec]/[IP_address]: version mismatch, mine [dec], theirs [dec]

Explanation	The remote end of a TCP remote peer is running the wrong version of the system software. Either the local end, the remote end, or both are not up to date.
Recommended Action	Call your technical support representative for an update.

%RSRB-3-IFERR : [chars]: [chars]: [chars], op [hex], len [dec], trn [dec]

Explanation	The remote end of a direct serial RSRB connection detected a configuration problem or traffic that is not recognized by the configuration.
Recommended Action	Examine the configuration on both sides of the serial connection for possible problems. Examine the traffic being offered for propagation with respect to the configuration. The destination target ring is denoted by the value of trn.

%RSRB-3-SENDPUNTIF : [chars]: sent [chars] to [chars]

Explanation	The local end of a direct serial RSRB connection detected a configuration problem or traffic that is not recognized by the configuration.
Recommended Action	Examine the configuration on both sides of the serial connection for possible problems. Examine the traffic being offered for propagation with respect to the configuration.

%RSRB-3-FSTERR : [chars]: [chars]: [IP_address], op [hex], len [dec], trn [dec]

Explanation	The remote end of a direct serial RSRB connection detected a configuration problem or traffic that is not recognized by the configuration.
Recommended Action	Examine the configuration on both sides of the serial connection for possible problems. Examine the traffic being offered for propagation with respect to the configuration. The destination target ring is denoted by the value of trn.

%RSRB-3-SENDPUNTFST : [chars]: sent [chars] to [chars]

Explanation	The local end of a direct serial RSRB connection detected a configuration problem or traffic that is not recognized by the configuration.
Recommended Action	Examine the configuration on both sides of the serial connection for possible problems. Examine the traffic being offered for propagation with respect to the configuration.

%RSRB-4-BADLENIP : Peer [dec]/[IP_address], [chars], bad length [dec], trn [dec]

Explanation	An internal software error occurred.
Recommended Action	If either message recurs, call your technical support representative for assistance.

%RSRB-4-ILLPEER : Peer [chars] [%-08x], illegal state [dec]

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

%RSRB-4-CONNILLSTATE : Peer [chars], CONN, illegal state [dec]

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

%RSRB-4-CONIPST : Peer [dec]/[IP_address], CONN, illegal state [dec]

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

%RSRB-3-HDRNOVRP : Peer [IP_address], HDR, no vrp

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

%RSRB-3-HDRVRP : Peer [dec]/[IP_address], HDR, vrp state wrong, [dec]

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

%RSRB-4-HDRRECV : Peer [dec]/[IP_address], HDR, recv state invalid, not empty [dec]

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

%RSRB-3-NOMEMORY : Unit [dec], no memory for [chars]

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

%RSRB-4-LOCAL : Unit [dec], local/vring set simultaneously, vrn [dec]

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

%RSRB-3-NOTREM : Null idb and not remote

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

%RSRB-4-BADVRE : Bad vre type

Explanation	An internal software error occurred.

%RSRB-4-BADVRE : Bad vre type

Recommended Action	If any of these messages recur, call your technical support representative for assistance.

%RSRB-4-RNGXFAIL : Ring exchange failure, resetting peer: [chars]

Explanation	The RSRB peer initiation logic failed due to a memory shortage or congestion condition.
Recommended Action	The problem should clear and the peers should re-open without operator intervention.

RSVP

%RSVP-5-CLEAR_COUNTERS : Clear RSVP message counters by [chars]

Explanation	The RSVP message counters have been cleared
Recommended Action	No action is required.

%RSVP-5-NO_MATCH_IF_ID_HOP : Received PATH ([IP_address]_[int]->[IP_address]_[int]) - Failed to find interface from IF_ID HOP from neighbor [IP_address]

Explanation	The interface id in the HOP object does not match any of this node's interfaces.
Recommended Action	Verify the configuration.

%RSVP-3-BAD_RMSG_TIMER : Inconsistent RSVP reliable message timer

Explanation	The summary refresh timer may be blocked.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support rsvp** command to gather data which may help identify the nature of the error. Then send this information to your Cisco technical support representative.

%RSVP-3-BAD_RSVP_MSG_RCVD_LEN : RSVP Message had a bad length; ip data len: [dec] rsvp len: [dec]

Explanation	The router received an RSVP message with the length field set to an unexpected value. Be aware that a bad length error may also be a side-effect of packet corruption.
Recommended Action	LOG_BAD_RSVP_MSG_ACTION Copy the error message(s) exactly as it appears on the console or in the system log. Issue the **show tech-support rsvp** command to gather data that may help identify the nature of the error and send this information to your Cisco technical support representative.

%RSVP-3-BAD_RSVP_MSG_RCVD_MALFORMED : RSVP Message was malformed; traversed objects len: [dec] rsvp msg len: [dec]

Explanation	An error was encountered during validation of the objects in an RSVP message received by the router.
Recommended Action	LOG_BAD_RSVP_MSG_ACTION Copy the error message(s) exactly as it appears on the console or in the system log. Issue the **show tech-support rsvp** command to gather data that may help identify the nature of the error and send this information to your Cisco technical support representative.

%RSVP-3-BAD_RSVP_MSG_RCVD_VER : RSVP Message had a bad version: [dec]

Explanation	The router received an RSVP message with the version field set to an unexpected value.
Recommended Action	LOG_BAD_RSVP_MSG_ACTION Copy the error message(s) exactly as it appears on the console or in the system log. Issue the **show tech-support rsvp** command to gather data that may help identify the nature of the error and send this information to your Cisco technical support representative.

%RSVP-3-BAD_RSVP_MSG_RCVD_CHECKSUM : RSVP Message had a bad checksum: [dec] foo: [dec]

Explanation	The router received an RSVP message with the checksum field incorrectly set. Bad checksums would most likely be caused by packet corruption outside RSVP. Be aware that corruption reported by RSVP might also be affecting other protocols on the router and might explain other unexpected non-RSVP protocol behavior. Please attempt to track down the source of the corruption.
Recommended Action	LOG_BAD_RSVP_MSG_ACTION Copy the error message(s) exactly as it appears on the console or in the system log. Issue the **show tech-support rsvp** command to gather data that may help identify the nature of the error and send this information to your Cisco technical support representative.

%RSVP-3-BAD_RSVP_MSG_RCVD_TYPE : RSVP Message had a bad type: [dec]

Explanation	The router received an incorrect RSVP message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support rsvp** command to gather data which may help identify the nature of the error. Then send this information to your Cisco technical support representative.

%RSVP-3-IP_HDR : [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]

Explanation	This is an auxiliary message to several packet-related messages. It displays the contents of 8 32-bit words immediately following the start of the IPv4/v6 header, in hex format. To decode the information in the IPv4 and IPv6 headers, please refer to RFCs 791 and 2460.
Recommended Action	Decode the information in the IPv4 and IPv6 headers to determine the source of the RSVP message.

%RSVP-3-MSG_1 : [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]

Explanation	This is an auxiliary message to several packet-related messages. It displays the contents of the first 8 32-bit words immediately following the start of the RSVP header, in hex format. To decode the information in the RSVP header, please refer to RFC 2205.
Recommended Action	If you need additional information about the packet, then turn on **debug ip rsvp dump-messages <msg type> [hex]** and try to capture the bad message. If you use the hex version of this command, you can convert it to pcap format with the offline tool text2pcap and then view the contents with another offline tool such as ethereal.

%RSVP-3-MSG_2 : [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]

Explanation	This is an auxiliary message to several packet-related messages. It displays the contents of the next 8 32-bit words following those that are printed by the MSG_1 message above, in hex format. To decode the information in these 32-bit words, please refer to RFC 2205.
Recommended Action	If you need additional information about the packet, then turn on **debug ip rsvp dump-messages <msg type> [hex]** and try to capture the bad message. If you use the hex version of this command, you can convert it to pcap format with the offline tool text2pcap and then view the contents with another offline tool such as ethereal.

%RSVP-3-BAD_RSVP_MSG_RCVD_OBJ_LEN : Received a bad RSVP message, num objs: [dec] obj len: [dec] msg_len: [dec]

Explanation	An error was encountered during validation of the objects in an RSVP message received by the router. The number of objects in the RSVP message was found to be greater than the maximum expected number or the size of an object was found to be smaller than the minimum expected size.
Recommended Action	LOG_BAD_RSVP_MSG_ACTION Copy the error message(s) exactly as it appears on the console or in the system log. Issue the **show tech-support rsvp** command to gather data that may help identify the nature of the error and send this information to your Cisco technical support representative.

%RSVP-3-CONSISTENCY : [chars]: [chars] [chars] [chars]

Explanation	An action attempted by the rsvp implementation encountered an unexpected condition
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support rsvp** command to gather data which may help identify the nature of the error. Then send this information to your Cisco technical support representative.

%RSVP-3-BAD_RSVP_MSG_RCVD_AUTH_NO_SA : [chars] message from [IP_address] discarded: no security association for [IP_address] - no RSVP security key configured or no memory left.

Explanation	The router received an RSVP message that contained a secure hash but dropped the message because the router was not able to create a security association for the sending system.
Recommended Action	Check the configuration on the router to make sure that RSVP has access to a security key for the sending system. If such a key is configured, then check to see if the router has run out of memory.

%RSVP-3-BAD_RSVP_MSG_RCVD_AUTH_DIGEST : [chars] message from [IP_address] discarded - incorrect message digest

Explanation	The router received an RSVP message that contained a different secure hash from the one computed by the router. RSVP discarded the message because the message may have come from an untrusted source.
Recommended Action	Check the configuration on the router and the sending system to make sure they are using the correct security key and secure hash algorithm.

%RSVP-3-BAD_RSVP_MSG_RCVD_AUTH_WIN : [chars] message from [IP_address] discarded - seq #[int] outside authentication window

Explanation	The router received an RSVP message whose authentication sequence number is less than the lower limit of the out-of-order window. RSVP discarded the message because an untrusted source may be (unsuccessfully) attempting an RSVP message replay attack.
Recommended Action	It is possible that a trusted source is sending a burst of reordered RSVP messages that is too large for the authentication window size. If you can verify that the source is trusted and its messages are being sent in large reordered bursts, use the **ip rsvp authentication window-size** command to increase the window size on the receiving router. It is also possible that a trusted source has rebooted and its clock has gone backward in time; in this case, the source should be configured to synchronize its clock with an NTP server. Otherwise, the sender could be an untrusted source (unsuccessfully) attempting an RSVP message replay attack; try to find and disable the untrusted source.

%RSVP-3-BAD_RSVP_MSG_RCVD_AUTH_DUP : [chars] message from [IP_address] discarded - authentication seq #[int] is a duplicate

Explanation	The router received an RSVP message with an authentication sequence number that has already been seen. RSVP discarded the message because an untrusted source may be (unsuccessfully) attempting an RSVP message replay attack.
Recommended Action	If you can verify that the source is trusted, it is possible that the source has rebooted and its clock has gone backward in time; in this case, the source should be configured to synchronize its clock with an NTP server. Otherwise, the sender could be an untrusted source (unsuccessfully) attempting an RSVP message replay attack; try to find and disable the untrusted source.

%RSVP-3-BAD_RSVP_MSG_RCVD_AUTH_COOKIE : [chars] message from [IP_address] discarded - challenge failed for key ID %*s

Explanation	The router sent an RSVP message to challenge the untrusted source to compute a secure hash on a random piece of data and return the hash with the same data, but the source did not return the expected data. RSVP discarded the response because the untrusted source may be (unsuccessfully) attempting an RSVP challenge response replay attack.
Recommended Action	If you can verify that the source is trusted, it is possible that the source has malfunctioned; in this case, copy the error message exactly as it appears on the console or in the system log, issue the `show tech-support rsvp` command to gather data which may help identify the nature of the error, and send this information to your Cisco technical support representative. Otherwise, try to find and disable the untrusted source.

%RSVP-3-RSVP_MSG_AUTH_CHALLENGE_TIMEOUT : No response to challenge issued to [IP_address] for key ID %*s

Explanation	The router sent an RSVP message to challenge the untrusted source to compute a secure hash on a random piece of data and return the hash with the same data, but the source did not reply. The source may have crashed or lost its network connection. However, it is also possible that the source was (unsuccessfully) attempting to replay an RSVP message before the challenge and gave up when it saw the challenge from the router
Recommended Action	If you can verify that the source is trusted, try to determine if it has crashed or lost its network connection and then restore network connectivity to it. If the source repeatedly crashes when challenged, a temporary workaround might be to disable challenges on the router by issuing a `no ip rsvp authentication challenge` command until the problem on the source is resolved. Otherwise, assume the source is untrusted; try to find and disable it.

%RSVP-3-RSVP_MSG_AUTH_TYPE_MISMATCH : [chars] message from [IP_address] discarded - authentication algorithm mismatch

Explanation	The router received an RSVP message from a source that required authentication but the received message was using the wrong authentication algorithm.
Recommended Action	Issue a `show ip rsvp authentication detail <source>` command on the router to display the expected algorithm type. Then find the source and change its configuration to match.

%RSVP-5-RSVP_AUTH_ONE_KEY_EXPIRED : Key (ID) [int] in chain [chars] has expired

Explanation	The router has detected that one key in a RSVP key chain has expired and that RSVP has switched to the next unexpired key in that chain.
Recommended Action	Update the key chain by changing the text and expiration time(s) for the expired key.

%RSVP-2-RSVP_AUTH_KEY_CHAIN_EXPIRED : All the keys in chain [chars] have expired - please update the key chain now

Explanation	The router attempted to use a key in an RSVP key chain but discovered that all the keys in the chain have expired. The router will attempt to to find another suitable key. If no other suitable per-neighbor key can be found, the router will attempt to use key (chain) configured for the interface over which the authenticated RSVP message is being sent or received.
Recommended Action	Update the key chain by updating the text and expiration time(s) for the expired key(s).

%RSVP-1-RSVP_AUTH_NO_KEYS_LEFT : No valid keys left for [IP_address]

Explanation	The router attempted to use a key in an RSVP key chain but discovered that all the keys in the chain have expired and no other per-neighbor or per-interface keys are available for the specified neighbor. The router will continue to use the last key in the chain rather than revert to an unauthentication condition. However, the specified neighbor router may start discarding RSVP messages at that point and reservations with that neighbor may eventually time out.
Recommended Action	Update the key chain by updating the text and expiration time(s) for the expired key(s).

%RSVP-4-RSVP_AUTH_DUPLICATE_KEY_ID : Key chains [chars] and [chars] contain duplicate key ID [int]

Explanation	An attempt is being made to add a new key identifier to a key chain in the router configuration but RSVP detected that this identifier is found in another key chain already assigned to RSVP. Since key identifiers must be unique across all the key chains used by RSVP, RSVP will not use the keys with this identifier in all such key chains. This could cause RSVP authentication to fail in some cases.
Recommended Action	Update the listed key chain(s) so they use different key identifiers.

%RSVP-5-RSVP_AUTH_KEY_ACL_CHANGE : Key chain [chars] [chars] for [IP_address] because ACL [chars] [chars]

Explanation	The ACL specified in the message text associates the key chain specified in the message text with a set of RSVP neighbors. RSVP uses the specified key chain to authenticate each RSVP message exchanged with that set of RSVP neighbors after the association is configured. Subsequently, the specified ACL has been reconfigured such that the key chain association is no longer valid for one or more RSVP neighbors in the set. This causes RSVP to search the configuration for another suitable key chain to use with those neighbors. If no such key chain is found, RSVP will no longer be able to provide authentication for messages exchanged with those RSVP neighbors. This causes RSVP to discard RSVP messages from that set of neighbors. Because this may ultimately lead to loss of RSVP functionality with those neighbors, RSVP generates this system message. This system message may also be generated if the ACL is subsequently changed so that it re-associates RSVP neighbors with the specified key chain. If RSVP is not using another key chain for the set of RSVP neighbors specified by the ACL, RSVP will begin using the specified key chain to exchange authenticated RSVP messages with that set of RSVP neighbors, potentially restoring RSVP functionality with those neighbors.
Recommended Action	If the ACL change unexpectedly caused authentication to be disabled or enabled for one or more RSVP neighbors, undo the ACL change so that RSVP authentication is not impacted.

%RSVP-3-RSVP_MFI_RECOVERY : RSVP calculated Recovery Time is longer than TE Rewrite Hold-Time registered with LSD. Some LSPs may not be be recovered.

Explanation	TE registered a maximum cutover time with the LSD that is less than the time it may actually take to recover all LSPs. As a result, more than usual traffic loss may occur on some LSPs during recovery
Recommended Action	Make note of the number of Checkpointed LSPs in the RSVP HA database by issuing the command `show ip rsvp high-availability database internal`. This number likely exceeds the hard defined limit of the number of recoverable LSPs. Provide this information to Cisco technical support representative.

RSVP_SYNC_ISSU

%RSVP_SYNC_ISSU-2-INIT : RSVP_SYNC ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation	The RSVP_SYNC 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.

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

Explanation	The RSVP_SYNC 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 RSVP_SYNC 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>)

%RSVP_SYNC_ISSU-3-MSG_NOT_OK : RSVP_SYNC ISSU client 'Message Type [dec]' is not compatible

Explanation	The RSVP_SYNC 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>)

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

Explanation	The RSVP_SYNC ISSU client failed to calculate the MTU for the specified message. The RSVP_SYNC 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>)

%RSVP_SYNC_ISSU-3-INVALID_SESSION : RSVP_SYNC ISSU client does not have a valid registered session.

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

%RSVP_SYNC_ISSU-3-INVALID_SESSION : RSVP_SYNC 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>)

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

Explanation	The RSVP_SYNC 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>)

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

Explanation	The RSVP_SYNC 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>)

%RSVP_SYNC_ISSU-2-SESSION_NEGO : RSVP_SYNC ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation	An ISSU-compliant client transitions through a series of internal states. The RSVP_SYNC 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>)

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

Explanation	The RSVP_SYNC 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)

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

Explanation	The RSVP_SYNC 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)

%RSVP_SYNC_ISSU-3-MSG_NOT_COMPATIBLE_WITH_PEER : 'Message Type [dec]' is not supported by RSVP_SYNC ISSU client at peer

Explanation	The RSVP_SYNC ISSU client at the peer supervisor is not compatible for this message type. The RSVP_SYNC client will be marked as incompatible with the peer.
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>)

%RSVP_SYNC_ISSU-3-CAP_NOT_COMPATIBLE : RSVP_SYNC ISSU client capability exchange result incompatible.

Explanation	The RSVP_SYNC ISSU client capability exchange have negotiated as incompatible with the peer.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu negotiated capability <Session_ID>)

%RSVP_SYNC_ISSU-3-CAP_INVALID_SIZE : RSVP_SYNC ISSU client capability list is empty.

Explanation	The RSVP_SYNC ISSU client capability exchange list size is invalid.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entires <Client_ID>)

RTMGR

%RTMGR-3-GENERAL : [chars]

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

%RTMGR-3-UNLOCK_ERR : Attempt to unlock active topology '[chars]' (in VRF [chars] [chars])

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

%RTMGR-3-VRF_ERR : Topology VRF [chars] creation error

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

%RTMGR-3-TOPO_VRF_ERR : Topology [chars] address-family [chars] has no VRF entry

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

%RTMGR-3-TOPO_IPMCAST_BASE_ERR : Failed to create the base mcast topology in vrf [chars] with error [chars]

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

%RTMGR-3-TOPO_INTF_CTX : Interface [chars] address-family [chars] topology context is NULL or the function [chars] is not set

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

%RTMGR-3-TOPO_SYNC_ERR : Failed to duplicate active topology on standby (rc=[dec]), id [hex] [chars]

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

%RTMGR-3-TOPO_UNSUPPORTED_AFI : Attempt to enable unsupported AFI ([hex])

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

%RTMGR-3-TOPO_AF_ENABLE_ERR : Failed to enable AF base topology [chars] (error [chars])

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

%RTMGR-3-TOPO_AFI_CTX : Topology address-family [chars] context block is NULL.

Explanation	An internal software error occurred.

%RTMGR-3-TOPO_AFI_CTX : Topology address-family [chars] context block is NULL.

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

%RTMGR-3-TOPO_INTF_INV_VRFID : Interface [chars] with invalid vrfid [hex]

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

%RTMGR-3-TOPO_CACHE_INIT_ERROR : ([chars])

Explanation	cached topo initialization 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.

%RTMGR-3-TOPO_CACHE_ADD_ERROR : ([chars])

Explanation	cached topo entry creation 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.

%RTMGR-3-TOPO_CACHE_ERROR : ([chars])

Explanation	cached topo failure

%RTMGR-3-TOPO_CACHE_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.

%RTMGR-3-TOPO_LCKMGR_INIT_ERROR : ([chars]) manager init failure

Explanation	Topology lock manager initialization 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.

%RTMGR-3-TOPO_LCKMGR_GET_LOCK_COUNT_ERROR : Failed to get lock count for topology([chars])

Explanation	Topology lock manager get lock count 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.

%RTMGR-3-TOPO_HA_LOCK_IVRF_TOPO : Acquired a HA lock on an iVRF topology([chars])

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

%RTMGR-3-TOPO_UNSUPPORTED_API : Topology API [chars] is unsupported due to [chars]

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

%RTMGR-3-TOPO_PROCESS_INIT_ERROR : Topology process init failed due to [chars]

Explanation	Topology process initialization 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.

%RTMGR-3-TOPO_SUBMODE_ERROR : Unexpected transition from parser submode '[chars]'

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

RTT

%RTT-4-DuplicateEvent : IP SLAs [dec]: Duplicate event received. Event number [dec]

Explanation	IP SLAs process has received a duplicate event
Recommended Action	This is only a warning message. If this recurs, enter the command <CmdBold>show ip sla configuration<NoCmdBld> and copy the output of the command. Copy the message as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information along with information about the application that is configuring and polling the Service Assurance Agent probes.

%RTT-3-IPSLANOPROCESS : IP SLAs: Cannot create a new process

Explanation	IP SLAs is unable to start a new process, and may not be running.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%RTT-3-IPSLANEGATIVEVALUE : IP SLAs([dec]): Negative Value for [chars]

Explanation	IP SLAs statistics has generated an error message.
Recommended Action	Contact your Cisco technical support representative

%RTT-3-IPSLAPROBENOTFOUND : IP SLAs: Error deleting the probe

Explanation	Trying to delete a probe which does not exist
Recommended Action	Contact your Cisco technical support representative

%RTT-3-IPSLATHRESHOLD : IP SLAs([dec]): Threshold [chars] for [chars]

Explanation	This informational message logs threshold violations in the Service Assurance Agent probes. This messages appears when the `ip sla logging trap` command is entered
Recommended Action	If this message is not necessary, enter the `no ip sla logging trap` command to disable logging. Otherwise, no action is required

%RTT-3-IPSLAINITIALIZEFAIL : IP SLAs: Failed to initialize, IP SLAs functionality will not work

Explanation	IP SLAs failed to initialize. This condition is caused by either a timer wheel timer functionality init that failed or a process that could not be created. A likely cause of this condition is that sufficient memory is not available to complete the task.
Recommended Action	Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. LOG_STD_REDUCE_ACTION

%RTT-3-IPSLATWINITFAIL : IP SLAs: Generic Timer wheel timer functionality failed to initialize

Explanation	IP SLAs could not initialize the timer wheel.
Recommended Action	Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. LOG_STD_REDUCE_ACTION

%RTT-4-IPSLACLOCKNOTSET : IP SLAs Probe(s) could not be scheduled because clock is not set.

Explanation	One or more IP SLAs probes could not be scheduled because system clock is not set.
Recommended Action	Ensure that the system clock is functional by using Network Time Protocol or another mechanism.

%RTT-4-IPSLASCHEDCONFIGFAIL : IP SLAs Probe [dec]: [chars]

Explanation	The IP SLAs probe could not be scheduled. Either the configured starting time has already ocurred, or the starting time is invalid.

%RTT-4-IPSLASCHEDCONFIGFAIL : IP SLAs Probe [dec]: [chars]

Recommended Action	Reschedule the failed probe with a valid start time.

%RTT-3-IPSLARESPTWINITFAIL : IP SLAs responder initialzation failed

Explanation	
Recommended Action	

%RTT-4-IPSLAENDPOINTDEREGISTER : IP SLAs end point de-registered by hub [IP_address].

Explanation	
Recommended Action	

%RTT-4-IPSLAAUTODISCOAUTHFAIL : IP SLAs end point discovery authentication failure for spoke [IP_address].

Explanation	The IP SLAs responder initialization failed to initialize timerwheel. Because of this failure the IP SLAs probes on other routers for which this router acts as responder will not work.
Recommended Action	Contact your Cisco technical support representative.

%RTT-3-IPSLARESPEVQINITFAIL : IP SLAs responder initialzation failed

Explanation	The IP SLAs responder initialization failed to initialize event queue. Because of this failure the IP SLAs probes on other routers for which this router acts as responder will not work.
Recommended Action	Contact your Cisco technical support representative.

%RTT-3-IPSLARTPAPPINITFAILED : IP SLAs rtp operation application process initialzation failed

Explanation	The IP SLAs rtp operation application process failed to initialize. Because of this failure the IP SLAs rtp operations will not work.
Recommended Action	Contact your Cisco technical support representative.

%RTT-4-SAASCHEDCONFIGFAIL : IP SLA Monitor Probe [dec]: [chars]

Explanation	The IP SLA Monitor probe could not be scheduled. Either the configured starting time has already ocurred, or the starting time is invalid.
Recommended Action	Reschedule the failed probe with a valid start time.

%RTT-4-SAAGRPSCHEDCONFIGFAIL : Group Schedule Entry [dec]: [chars]

Explanation	The probes could not be group scheduled. Either the configured starting time has already ocurred, or the starting time is invalid.
Recommended Action	Reschedule the group scheduling entry with a valid start time.

%RTT-3-SAAMPLS : IP SLA Monitor([dec]): MPLS [chars] Probe [chars] [chars] for destination-address [IP_address] lsp-selector [IP_address]

Explanation	This informational message logs violations in the Service Assurance Agent probes. This messages appears when the `ip sla logging trap` command is entered
Recommended Action	If this message is not necessary, enter the `no ip sla logging trap` command to disable logging. Otherwise, no action is required

%RTT-3-IPSLA_AQM : [chars]: [chars]

Explanation	This message indicates software error in IPSLA auto qos monitor feature.
Recommended Action	Contact your Cisco technical support representative.

%RTT-4-OPER_TIMEOUT : condition [chars], entry number = [dec]

Explanation	This message logs timeout condition in the IPSLAs operations. This message is enabled when the `ip sla monitor logging trap` command is entered
Recommended Action	Ensure that the destination for the IPSLAs operation is reachable. If you do not want to log these messages for IPSLAs operations, enter the `no ip sla monitor logging trap` command to disable the logging

%RTT-4-OPER_CLOSS : condition [chars], entry number = [dec]

Explanation	This message logs connection loss condition in the IPSLAs operations. This message is enabled when the `ip sla monitor logging trap` command is entered

%RTT-4-OPER_CLOSS : condition [chars], entry number = [dec]

Recommended Action	Ensure the the destination for the IPSLAs operation is reachable. Also ensure that the IPSLAs responder operation is configured on the destination. If you do not want to log these messages for IPSLA operations, enter the **no ip sla monitor logging trap** command to disable logging.

%RTT-4-AUTOAPI : IPSLAs Auto CFG ERR: [chars]([chars]) [chars]

Explanation	An error occured while configuring IPSLAs Auto parameters. Some, or all of your configurations may not have been (un)set
Recommended Action	Please check the configuration and try again

%RTT-4-AUTOAPIOPER : IPSLAs Auto CFG ERR: [chars]([chars])[[dec]] [chars]

Explanation	An error occured while configuring IPSLAs Auto parameters. Some, or all of your configurations may not have been (un)set
Recommended Action	Please check the configuration and try again

%RTT-3-AUTO : Error: [chars]

Explanation	An error occured while generating IPSLAs Auto operation.
Recommended Action	Please check the configuration and try again

%RTT-4-AUTOMEM : IPSLAs Auto MEM ERR: [chars]([chars]) [chars]

Explanation	IPSLAs Auto feature failed during memory allocation
Recommended Action	These maybe transient errors, please try again

%RTT-4-INVALIDSRCIPADDR : Possible invalid src IP address ([IP_address]) configured.

Explanation	This message appears when no source IP address is found on the host matching the one specified by the user
Recommended Action	Unconfigure the probe and reconfigure with valid source IP address

%RTT-3-REACTNOTIFYFAILED : entry number = [dec], reason = [chars]

Explanation	IPSLAs Reaction condition was met for specified operation and one or more IPSLAs Event Publisher clients have registered interest for this condition but the notification for this occurence failed.
Recommended Action	These maybe transient system errors and the notification may work next time. Use show ip sla event-publisher command to see which clients are registered and take action recommended by them.

%RTT-4-REACTPARTIALEVENT : entry number = [dec], missing data = [chars]

Explanation	IPSLAs Reaction Event is missing some interesting data
Recommended Action	This could be because of IPSLAs software error. Please collect show ip sla config output and report issue to TAC

%RTT-3-EPNOTIFYFAILED : event type = [chars], client = [chars], reason = [chars]

Explanation	Notification for specified type to specified IPSLAs Event Publisher client failed
Recommended Action	This maybe transient system error and the notification may work next time. Take the action as suggested by the identified client for loss of notification.

%RTT-3-EPSTARTERROR : Failed to start IPSLAs Event Publisher

Explanation	IPSLAs is unable to start a new process for Event Publisher. Reaction Alert notifications will not work.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%RTT-3-EPURFTYPE : IPSLAs EventPublisher: Unknown reaction filter type for client [chars]

Explanation	IPSLAs Event Publisher encountered unknown filter type while sending the reaction alert to specified client Reaction Alert notifications may continue to work for same and other clients.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%RTT-4-EPINIT : IPSLAs Event Publisher Init Failed. Reason = [chars]

Explanation	IPSLAs Event Publisher Initialization failed. The system will try to recover by doing the initialization tasks when first client subscribes to IPSLAs events.

%RTT-4-EPINIT : IPSLAs Event Publisher Init Failed. Reason = [chars]

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

%RTT-4-EPAPI : IPSLAs EP API: [chars] api failed, client = [chars], reason = [chars]

Explanation	IPSLAs Event Publisher API failed for reason identified
Recommended Action	The error code is reported to API client. Take the action recommended by the client identified.

%RTT-4-OPER_PROTOERR : Entry number = [dec], Protocol Specific Error [chars], specific code = [dec]

Explanation	This message logs protocol specific error condition in the IPSLAs operations. This message is enabled when the `ip sla logging traps` command is entered
Recommended Action	Ensure that the destination for the IPSLAs operation is reachable. Also ensure that the IPSLA responder operation is configured on the destination. If you do not want to log these messages for IPSLAs operations, enter the `no ip sla logging traps` command to disable the logging

SADB

%SADB-4-TREE_CORRUPTED : SADB : AVL Tree got corrupted

Explanation	SADB's one of the AVL Trees got corrupted
Recommended Action	No action is required.

SBC

%SBC-3-FEAT_DOWN : Invalid request [chars] while feature down, call id [int]

Explanation	While the feature was not active, an invalid request was received from another layer of the SBC software stack for the specified call ID. Some requests do not have an associated call ID. For them the displayed call ID is zero.
Recommended Action	This is a software issue. The consequences could be limited to only one or a few calls. LOG_STD_RECUR_ACTION

%SBC-3-FEAT_UP : Invalid request [chars] while feature up

Explanation	While the feature was active, an invalid request was received from another layer of the SBC software stack.

%SBC-3-FEAT_UP : Invalid request [chars] while feature up

Recommended Action	This is a software issue. There are no consequences as this can only have been an Init request while the feature was already active. LOG_STD_RECUR_ACTION

%SBC-3-NO_RES : [chars] resource not available for the [chars] request, call id [int]

Explanation	The specified software resource was not available or could not be located for the specified request from upper SBC software stack layers for the specified call ID.
Recommended Action	This is a software issue. The consequences are that the specified request could not be performed. LOG_STD_RECUR_ACTION

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

Explanation	For a request from upper SBC software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck call that cannot be established etc. In rare cases this could also affect other operations such as feature activation, deactivation, modification, High-Availability switchover operations.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

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

Explanation	For a request from upper SBC 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 call that cannot be established etc. In rare cases this could also affect other operations such as feature activation, deactivation, modification, High-Availability switchover operations.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

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

Explanation	Registering an IPC message handler for the SBC feature failed. This will cause the feature not to function. The function
Recommended Action	This is normally a software issue. The consequences are that the SBC feature will not function. LOG_STD_ACTION

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

Explanation	SBC Initialization of channel pool failed.

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

Recommended Action	LOG_STD_ACTION

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

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

SBC_CFG

%SBC_CFG-3-DBE_CONFIG_FAILURE : An SBC DBE configuration failure has occurred.

Explanation	SBC has been unable to apply its DBE configuration.
Recommended Action	Attempt to manually reconfigure the SBC DBE. LOG_STD_ACTION

%SBC_CFG-6-SERVICE_CHANGE_COLD_BOOT : Delay [chars].

Explanation	SBC has been configured to delay sending a ServiceChange message at boot. Upon the delay timer expiring, the ServiceChange message will be sent.
Recommended Action	This message is for informational purposes only. A ServiceChange message will be sent out once the delay timer expires.

%SBC_CFG-4-SERVICE_CHANGE_COLD_BOOT_DELAY_FAILED : Failed to delay ServiceChange.

Explanation	SBC has failed to start a timer for delaying a ServiceChange message at boot. The ServiceChange message will be sent out without a delay.
Recommended Action	Ensure that SBC has been fully Activated and that all requested pinholes have been established. LOG_STD_ACTION

%SBC_CFG-3-SERVICE_CHANGE_COLD_BOOT_FAILED : Delayed ServiceChange failed.

Explanation	SBC has failed to send the delayed ServiceChange message at boot.
Recommended Action	Ensure that the SBC configuration is valid, and perform a manual SBC Activation.

%SBC_CFG-3-MED_NOT_DEL_V4 : IPv4 address(es) deleted ([IP_address] [IP_address], VRF '[chars]'), media addresses/pools not removed.

Explanation	One or more IPv4 addresses of an SBC interface were removed while the SBC was still active. Please remove the media addresses/pools later manually. If the media addresses/pools were associated with a VRF then it will be necessary to remove the media addresses/pools by unconfiguring the SBC.
Recommended Action	

%SBC_CFG-3-MED_NOT_DEL_V6 : IPv6 address(es) deleted ([IPV6 address]/[int] VRF '[chars]'), media addresses/pools not removed.

Explanation	One or more IPv6 addresses of an SBC interface were removed while the SBC was still active. Please remove the media addresses/pools later manually. If the media addresses/pools were associated with a VRF then it will be necessary to remove the media addresses/pools by unconfiguring the SBC.
Recommended Action	

%SBC_CFG-3-SBC_NOT_CONFIG : SBC is not configured. VOIP LI configuration request failed

Explanation	Since SBC is not configured, the VOIP LI request is rejected. First configure SBC and then VOIP LI requests will be processed.
Recommended Action	

%SBC_CFG-4-BLACKLIST_CLEARED : Source [chars]: cleared blacklist event or alert, reason: [chars]

Explanation	A blacklist event or alert is cleared.
Recommended Action	

%SBC_CFG-4-BLACKLIST_MINOR : Source [chars]: minor blacklist alert, reason: [chars]

Explanation	A minor blacklist alert has been generated.
Recommended Action	

%SBC_CFG-4-BLACKLIST_MAJOR : Source [chars]: major blacklist alert, reason: [chars]

Explanation	A major blacklist alert has been generated.

%SBC_CFG-4-BLACKLIST_MAJOR : Source [chars]: major blacklist alert, reason: [chars]

Recommended Action	

%SBC_CFG-4-BLACKLIST_CRITICAL : Source [chars]: critical blacklist alert, reason: [chars]

Explanation	A critical blacklist alert has been generated.
Recommended Action	

%SBC_CFG-4-BLACKLIST_BLOCKED : Source [chars]: blacklisted, blocked, reason: [chars]

Explanation	The source is blacklisted.
Recommended Action	

SBC_HA

%SBC_HA-3-INTERNAL : An internal SBC HA error has been encountered[chars].

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

%SBC_HA-3-LARGE_IPS_MSG : SBC failed to receive large sync message of size [dec].

Explanation	The SBC module was unable to successfully receive a large sync message on the Standby. The Standby will be will not have an identical dynamic state as the Active.
Recommended Action	No action is required.

%SBC_HA-3-LARGE_IPS_MSG_FAIL : SBC failed to send large sync message of size [dec].

Explanation	The SBC module was unable to successfully send a large sync message to the Standby because this version of the Standby does not support large messages. The Standby will be will not have an identical dynamic state as the Active.
Recommended Action	No action is required.

%SBC_HA-3-CONFIG_SYNC : SBC failed to cache SBC config of size [dec].

Explanation	The SBC module was unable to successfully cache the SBC config on the Standby. The Standby will be unable to write SBC config to NVRAM.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-RF_REGISTRATION : SBC RF failed to register

Explanation	The SBC module was unable to successfully register with the RF infrastructure. SBC will not be able to operate in a stateful 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.

%SBC_HA-3-WATCH_PROGRESSION : SBC RF failed to create progression watch points.

Explanation	The SBC module was unable to successfully create the RF progression watch points. RF progression will not be suspended at bulk synchronisation time, so some SBC calls may be lost if a switchover occurs immediately after the system reaches the Standby Hot redundancy state.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-NO_SYNC_PROCESS : SBC RF failed to start the config sync process.

Explanation	The SBC module was unable to successfully start the configuration sync process. The Standby will be unable to fully initialise.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-RF_TIMER_EXTENSION_EXPIRY : SBC RF progression extension timer expired.

Explanation	The SBC module's RF progression extension timer expired. RF progression will resume, but if a switchover occurs immediately after the system reaches the Standby Hot redundancy state then some SBC calls may be lost.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-HOLD_PROGRESSION : SBC RF failed to start the progression holding process.

Explanation	The SBC module was unable to successfully start the RF progression holding process. RF progression will resume immediately, but if a switchover occurs immediately after the system reaches the Standby Hot redundancy state then some SBC calls may be lost.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-RF_PROGRESSION : SBC RF failed to resume RF progression at state [chars].

Explanation	The SBC module was unable to successfully resume RF progression at the noted state. The Standby will be unable to fully initialise.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-RF_CONFIG_SYNC : SBC RF will not be able to synchronise SBC configuration to the Standby. Failure cause: [chars].

Explanation	The SBC module will not be able to synchronise the SBC config to the Standby. The Standby will be unable to write SBC config to NVRAM.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-IPC_RMI_INIT : SBC IPC failed to register with RMI ([chars]).

Explanation	The SBC IPC module was unable to successfully register with the Resource Manager. SBC may not be able to operate in a stateful 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.

%SBC_HA-3-IPC_INIT : SBC IPC failed to initialise ([chars]).

Explanation	The SBC IPC module was unable to successfully initialise. SBC may not be able to operate in a stateful 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.

%SBC_HA-3-IPC_SEND : SBC IPC message send failed (error [chars]).

Explanation	The SBC module was unable to successfully send a message to its peer. SBC will not be able to operate in a stateful 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.

%SBC_HA-3-ISSU_REGISTRATION : SBC ISSU failed to register.

Explanation	The SBC module was unable to successfully register with the ISSU infrastructure. SBC will not be able to operate in a stateful 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.

%SBC_HA-3-ISSU_CLIENT_REGISTRATION : SBC Client ([dec]) Registration failed ([chars]).

Explanation	The SBC module was unable to successfully register with the ISSU infrastructure. SBC will not be able to operate in a stateful mode.

%SBC_HA-3-ISSU_CLIENT_REGISTRATION : SBC Client ([dec]) Registration failed ([chars]).

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

%SBC_HA-3-ISSU_ENTITY_REGISTRATION : SBC Entity ([dec]) Registration failed ([chars]).

Explanation	The SBC ISSU entity could not be registered. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the `show issu entities` command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_MSGTYPE_REGISTRATION : SBC Msg Type for Entity ([dec]) Registration failed ([chars]).

Explanation	The message type for SBC ISSU could not be registered. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the `show issu message types` command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_MSGGROUP_REGISTRATION : SBC Msg Group ([dec]) for Entity ([dec]) Registration failed ([chars]).

Explanation	The message group for SBC ISSU could not be registered. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the `show issu message groups` command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_CAPTYPE_REGISTRATION : SBC Cap Type for Entity ([dec]) Registration failed ([chars]).

Explanation	A capability type could not be registered for SBC ISSU. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the **show issu capability types** command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_CAPENTRY_REGISTRATION : SBC Cap Entry ([dec]) for Entity ([dec]) Registration failed ([chars]).

Explanation	A capability entry could not be registered for SBC ISSU. SBC will not be able to operate in a stateful mode.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries)

%SBC_HA-3-ISSU_CAPGROUP_REGISTRATION : SBC Cap Group ([dec]) for Entity ([dec]) Registration failed ([chars]).

Explanation	A capability group could not be registered for SBC ISSU. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the **show capability groups** command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_SESSION_REGISTRATION : SBC session for Entity ([dec]) Registration failed ([chars]).

Explanation	The SBC ISSU session could not be registered. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the **show issu sessions** command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_START_NEGOTIATION : SBC ISSU negotiation failed to start ([chars]).

Explanation	The SBC module was unable to successfully start negotiatiation with its peer. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the `show issu fsm` command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-4-ISSU_GET_BUFFER : SBC ISSU session failed to get buffer.

Explanation	The SBC ISSU client failed to get a buffer. Some High-Availability SBC information may be missing from the peer.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the `show processes memory` command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_NEGOTIATION : SBC ISSU negotiation failed.

Explanation	The SBC module was unable to successfully negotiate with its peer. SBC will not be able to operate in a stateful 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.

%SBC_HA-3-ISSU_MSG_MTU : SBC Client ([dec]) get msg mtu failed. Error = [dec].

Explanation	The SBC ISSU client could not obtain a message of the required size.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the `show issu fsm` command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_TRANSFORM : SBC ISSU [chars] transformation failed ([chars]).

Explanation	The transformation operation for an SBC ISSU message has failed.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu fsm and show issu sessions)

%SBC_HA-3-LARGE_IPS_UNSUPP : The current version of the SBC Standby does not support the syncing of large SBC contexts

Explanation	The current version of the SBC Standby does not support the syncing of large SBC contexts. A context that contains 24 or more media and signaling flows is a large context. It is rare to have such a large context and thus, ISSU compatibility has been permitted even though this difference in support exists. Normal SBC High Availability synchronization will continue to operate successfully as long as no contexts contain more than 24 signaling or media flows. Context information beyond 24 flows will not be replicated and thus on RP switchover the Active RP will not have information about all the contexts
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ILT_STUB : SBC ILT Stub process creation failed.

Explanation	The SBC module was unable to successfully create the ILT Stub process. SBC will not be able to operate in a stateful 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.

%SBC_HA-3-ILT_REGISTRATION : SBC ILT registration failed.

Explanation	The SBC module was unable to successfully register for communication with the peer unit. SBC will not be able to operate in a stateful 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.

%SBC_HA-3-ILT_PROC_CREATE : SBC ILT process creation failed.

Explanation	The SBC module was unable to successfully create an SBC process. SBC will not be able to operate in a stateful 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.

%SBC_HA-3-SBC_IPV6_CFG : SBC has detected configuration/dynamic state ([chars]) which is not supported on the peer.

Explanation	Peer SBC does not support IPv6.
Recommended Action	Manually remove IPv6 configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_DYNAMIC_CODEC_CFG : SBC has detected Dynamic Codec configuration which is not supported on the peer. SBC cannot proceed as HA client. Remove all codec configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support Dynamic Codec configuration.
Recommended Action	Manually remove Dynamic Codec configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_XML_BILLING_CFG : SBC has detected Xml Billing configuration which is not supported on the peer. SBC cannot proceed as HA client. Remove all xml billing configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support Xml Billing configuration.
Recommended Action	Manually remove Xml Billing configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_RG_NO_TRANSPORT : SBC was unable to register a transport with the RG infrastructure for inter-chassis HA.

Explanation	SBC will not be able to support inter-chassis HA.
Recommended Action	No action is required.

%SBC_HA-3-SBC_RG_NO_CLIENT : SBC was unable to register the RG Client with the RG infrastructure for inter-chassis HA.

Explanation	SBC will not be able to support inter-chassis HA.
Recommended Action	No action is required.

%SBC_HA-3-SBC_RG_NO_PROCESS : SBC was unable to start a process used by the RG client

Explanation	SBC will not be able to support inter-chassis HA.
Recommended Action	No action is required.

%SBC_HA-3-SBC_RG_NO_SOCKET : SBC was unable to open a socket for the RG client

Explanation	SBC will not be able to support inter-chassis HA.
Recommended Action	No action is required.

%SBC_HA-3-SBC_RG_SOCK_FAIL : SBC lost connection with RG peer, socket failure [chars], len=[dec]

Explanation	SBC HA may be disabled until peer connection is established.
Recommended Action	No action is required.

%SBC_HA-3-SBC_CODEC_INTERWORK_CFG : SBC has detected codec configuration which is not supported on the peer. SBC cannot proceed as HA client. Remove all newly entered codec configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support codec preference, variant or interwork configuration.
Recommended Action	Manually remove newly added codec configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_MSMB_CFG : SBC has detected Multi SBC Media Bypass configuration which is not supported on the peer. SBC cannot proceed as HA client. Remove all Multi SBC Media Bypass configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support Multi SBC Media Bypass configuration.
Recommended Action	Manually remove Multi SBC Media Bypass configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_DBL_NA_ALERT_CFG : SBC has detected blacklist entries configured which have reason na-policy-failure OR minor, major, critical alerts which is not supported on the peer. SBC cannot proceed as HA client. Remove all blacklist entries with this reason or any alerts configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support blacklist reason na-policy-failure or blacklist alerts configuration.
Recommended Action	Manually remove blacklist reason na-policy-failure and minor, major or critical alerts configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_B2B_RESTART : SBC restart has taken longer than expected. The SBC will be restarted, but may require a shut/no shut of the redundancy group in order to return to stateful HA with the active router.

Explanation	SBC process restart timedout, may require manual intervention.
Recommended Action	Shut/No shut the standby redundancy group associated with the SBC. LOG_STD_ACTION

%SBC_HA-3-SBC_HA_CALL_ONA_CFG : SBC has detected first-outbound-na-table configured within a call-policy-set. This command is not supported on the peer. SBC cannot proceed as HA client. Remove all first-outbound-na-table configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support first-outbound-na-table configuration within a call-policy-set.
Recommended Action	Manually remove the first-outbound-na-table configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_HA_ADMIN_DOMAIN_CFG : SBC has detected an admin-domain configuration. This feature is not supported on the peer. SBC cannot proceed as HA client. Remove all admin-domain submodes from the configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support admin-domain configuration.
Recommended Action	Manually remove the admin-domain submodes from configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_HA_CAC_AVG_PER2_CFG : SBC has detected averaging-period 2 cac configuration. Averaging-period 2 is not supported on the peer. SBC cannot proceed as HA client. Remove the cac-policy-set averaging-period 2 configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support averaging-period 2 cac configuration.
Recommended Action	Manually remove the cac-policy-set averaging-period 2 configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_HA_CAC_AVG_PER2_RATE_CFG : SBC has detected cac-policy-set rate limit configuration for averaging-period 2. Averaging-period 2 is not supported on the peer. SBC cannot proceed as HA client. Remove the cac-policy-set rate limit configuration for averaging-period 2 to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support cac rate limit configuration for averaging-period 2.
Recommended Action	Manually remove the rate limit commands for averaging-period 2 found within the cac-policy-set entry and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_HA_PORT_TAG_CFG : SBC has detected an port tag configuration. This feature is not supported on the peer. SBC cannot proceed as HA client. Remove all port tag from the configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support port tag configuration.
Recommended Action	Manually remove the port tag from configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_FLEX_MED_RTG_CFG : SBC has detected flexible media routing configuration. This feature is not supported on the peer. SBC cannot proceed as HA client. Remove all flexible media routing config from the configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support flexible media routing configuration.
Recommended Action	Manually remove flexible media routing from configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_HA_CAC_PRIVACY_SERV_CFG : SBC has detected cac-policy-set privacy-service configuration for a cac entry. This enhancement is not supported on the peer. SBC cannot proceed as HA client. Remove the cac-policy-set privacy-service related configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support cac-policy-set privacy-service configuration for a cac entry.
Recommended Action	Manually remove the privacy-service related commands configured within the cac-policy-set entry and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_IMP_NA_REGEX_CFG : SBC has detected number analysis entries that match on text addresses, which are not supported on the peer. Remove all regex number analysis entries to proceed with ISSU/D

Explanation	Peer SBC does not support regex number analysis entries.
Recommended Action	Manually remove regex number analysis entries and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_IMP_NA_EDITSRC_CFG : SBC has detected number analysis entries that have edit-src actions, which are not supported on the peer. Remove all edit-src actions from all number analysis entries to proceed with ISSU/D

Explanation	Peer SBC does not support edit-src actions in number analysis entries.
Recommended Action	Manually remove edit-src actions from all number analysis entries and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_IMP_NA_SRCANON_CFG : SBC has detected na-src-name-anonymous number analysis tables, which are not supported on the peer. Remove all na-src-name-anonymous number analysis tables to proceed with ISSU/D

Explanation	Peer SBC does not support na-src-name-anonymous number analysis tables.
Recommended Action	Manually remove all na-src-name-anonymous number analysis tables and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_MESSAGE_EDITING_CFG : SBC has detected message editing configured which may have sip editor_type editor OR parameter-editor OR header-editor OR method-editor OR body-editor OR option-editor which is not supported on the peer. SBC cannot proceed as HA client. Remove all message editing config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support message editing configuration.
Recommended Action	Manually remove message editing configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_RG_NO_VRF : SBC VRF mismatch between active and standby, please add [chars]

Explanation	SBC may fail to fully support SSO
Recommended Action	No action is required.

%SBC_HA-3-SBC_RG_VRF_INUSE : VRF is used by SBC, add back or remove from active, please add [chars]

Explanation	SBC may fail to fully support SSO
Recommended Action	No action is required.

%SBC_HA-3-SBC_SIPS_H323_INTWK_CFG : SBC has detected SIPS-H323 Interworking configured which may have trusted H323 Adjacencies or secure calls configured which is not supported on the peer. SBC cannot proceed as HA client. Remove all SIPS-H323 Interworking config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support SIPS-H323 Interworking configuration.

%SBC_HA-3-SBC_SIPS_H323_INTWK_CFG : SBC has detected SIPS-H323 Interworking configured which may have trusted H323 Adjacencies or secure calls configured which is not supported on the peer. SBC cannot proceed as HA client. Remove all SIPS-H323 Interworking config to proceed with ISSU/ISSD.

Recommended Action	Manually remove SIPS-H323 Interworking configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_LRU_CFG : SBC has detected LRU configured SBC cannot proceed now. Remove all LRU CONFIG to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support LRU configuration.
Recommended Action	Manually remove LRU configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_SDP_EDITING_CFG : SBC has detected sdp editing configured which may have script-set OR active-script-set OR test script-set on any adjacency configured which is not supported on the peer. SBC cannot proceed as HA client. Remove all sdp editing config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support sdp editing configuration.
Recommended Action	Manually remove sdp editing configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_CAC_ENHANCEMENT_CFG : SBC has detected cac enhancement feature configured which may have branch cli OR cac-scope (adjacency ,account)cli SBC cannot proceed as HA client. Remove all cac enhancement feature config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support cac enhancement feature configuration.
Recommended Action	Manually remove cac enhancement feature configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_QOS_DEMARCATION_CFG : SBC has detected qos demarcation configured which may have statistics threshold OR g107a factor OR cal_moscqe OR g107 bpl OR g107 ie OR qos trap configured ,which is not supported on the peer. SBC cannot proceed as HA client. Remove all qos demarcation config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support qos demarcation configuration.
Recommended Action	Manually remove qos demarcation configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_VIA_PASSTHROUGH_CFG : SBC has detected Via Passthrough configured SBC cannot proceed now. Remove all Via Passthrough CONFIG to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support Via Passthrough configuration.
Recommended Action	Manually remove Via Passthrough configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_MEDIA_BYPASS_NATTAGGEN_CFG : SBC has detected media bypass auto-nat-tag-gen configured SBC cannot proceed now. Remove all media bypass auto-nat-tag-gen config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support media bypass auto-nat-tag-gen configuration.
Recommended Action	Manually remove media bypass auto-nat-tag-gen configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_MEDIA_ADDRESS_PRESERVE_INIT_NEGO_CFG : SBC has detected media address preserve init-negotiation configured SBC cannot proceed now. Remove all media address preserve init-negotiation config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support media address preserve init-negotiation configuration.
Recommended Action	Manually remove media address preserve init-negotiation configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_SUBSCRIBER_TCP_CFG : SBC has detected subscriber tcp configured which may have subscriber tcp incoming-only configured which is not supported on the peer. SBC cannot proceed as HA client. Remove all subscriber tcp config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support susbscriber tcp configuration.
Recommended Action	Manually remove subscriber tcp configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_IMS_RF_CFG : SBC has detected ims rf configured. SBC cannot proceed now. Remove all ims rf config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support ims rf configuration.
Recommended Action	Manually remove ims rf configuration and reinitiate ISSU. LOG_STD_ACTION

SBC_MPS through SDWAN_PROXY

- SBC_MPS
- SBC_SPF
- SCC
- SCHED_TEST
- SCOOBY
- SDFLASH
- SDLC
- SDLLC
- SDVXLAN
- SDWAN_PROXY

SBC_MPS

%SBC_MPS-3-INTERNAL : An internal IOSd SBC error has been encountered[chars].

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

%SBC_MPS-3-INITFAIL : SBC module initialisation failure: [chars].

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

%SBC_MPS-3-MAX_RESOURCES : The maximum resource limit has been reached.

Explanation	The system was asked to allocate more resources, but the maximum resource limit had already been reached

%SBC_MPS-3-MAX_RESOURCES : The maximum resource limit has been reached.

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

%SBC_MPS-3-ENQUEFAIL : Enqueue of TDL message failed ([chars]).

Explanation	An unexpected condition has occurred which resulted in configuration or event details not being forwarded.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-6-UNEXPECTED_TDL : An unexpected message ([chars]) has been received by SBC while in the [chars] state.

Explanation	An internal message has been received by SBC, but it was not expecting that message at that particular time. The system will ignore the message and continue operation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-4-UNEXPECTED_PKT : An unexpected packet for call [dec] has been received by SBC.

Explanation	A packet been received by SBC for the noted call, but the call was not in a correct state to handle it. The system will ignore the packet and continue operating.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-3-UNEXPECTED_TIMOUT : An unexpected timeout has been encountered by SBC ([chars]).

Explanation	A timeout was experienced by the IOSd SBC subsystem, but no such timeout should have occurred. The system will ignore the timeout and continue operating.

%SBC_MPS-3-UNEXPECTED_TIMOUT : An unexpected timeout has been encountered by SBC ([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.

%SBC_MPS-6-DEACTIVATE_NO_RSP : SBC deactivate response is considered lost.

Explanation	The response for SBC deactivate can get lost due to FP startup or switchover while deactivation is in progress.
Recommended Action	SBC can be activated now if needed.

%SBC_MPS-6-DEACTIVATE_RESPONSE : SBC deactivate is complete.

Explanation	SBC deactivation can take a while. This happens when SBC deactivation is done in the presence of a lot calls with deactivation-mode set to abort. SBC deactivate is now complete.
Recommended Action	SBC can be safely activated now if needed.

%SBC_MPS-4-NEW_MPF_CAPABILITIES : New SBC MPF Capabilities handling failure.

Explanation	SBC has received a new set of Media Packet Forwarding capabilities from the associated Forwarding Processor that are inconsistent with those already in use. SBC was unable to process these new capabilities online, and will automatically restart.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-4-TRANSCODE_MPF_CAPABILITIES : Transcoding SBC MPF Capabilities handling failure.

Explanation	SBC has been unable to prepare a transcoding supported Media Packet Forwarding capabilities message. SBC will not be able to support transcoding functionality.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-4-MPF_SRTP_CAPABILITIES : Unable to set SRTP capabilities

Explanation	SBC made an attempt to set the platform capabilities with respect to its handling of SRTP streams and was not successful. SRTP streams will not be handled through the SBC.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-4-MPF_CAPABILITIES : SBC MPF Capabilities handling failure.

Explanation	SBC has been unable to properly prepare a Media Packet Forwarding capabilities message. SBC may not be able to support select functionality such as transcoding or SRTP.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SBC_SPF

%SBC_SPF-3-INTERNAL : An internal IOSd SBC error has been encountered[chars].

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

%SBC_SPF-3-NOT_FOUND : An unsolicited message has been received by SBC ([chars] [int])

Explanation	An internal message has been received by SBC, but it was not expecting that message at that particular time. The system will ignore the message and continue operation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_SPF-3-ENQUEFAIL : Enqueue of TDL message failed ([chars]).

Explanation	An unexpected condition has occurred which resulted in configuration or event details not being forwarded.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SCC

%SCC-3-XCVR_BAD_ID_HW : Failed identification test in [dec]/[dec]/[dec].

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

SCHED_TEST

%SCHED_TEST-6-ERRMSG : This errmsg should print correctly.

Explanation	
Recommended Action	

%SCHED_TEST-2-EXITHOOK : Exit routine invoked for process [chars].

Explanation	
Recommended Action	

SCOOBY

%SCOOBY-5-SERIAL_BRIDGE_BLOCK_EVENT : Block [chars]/[dec] of serial bridge [dec] had I/O event [hex]

Explanation	A serial bridge I/O event has occurred. This event is not serious but is logged for diagnostic purposes.
Recommended Action	No user action is required.

RSCMSM through SWPORT_PROXY

SBC_MPS through SDWAN_PROXY

%SCOOBY-0-SERIAL_BRIDGE_CRITICAL_ERROR : Reloading [chars] due critical event [hex] in block [chars]/[dec] of serial bridge [dec]

Explanation	A critical serial bridge I/O event has occurred.
Recommended Action	The system automatically reloads the hardware component experiencing the error. If the problem persists, copy the message exactly as it appears on the console or in the system log, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.

%SCOOBY-5-SERIAL_BRIDGE_EVENT_RATE : The [chars] event rate of [int] has exceeded the threshold of [int] on serial bridge [dec] interconnect [dec]

Explanation	A Serial Bridge has experienced a high event rate. This condition is not considered serious, but is logged for diagnostic purposes. This could be due to a hardware or software driver defect.
Recommended Action	No user action is required. If this message persists, a serial bridge critical message that needs to be addressed will appear.

%SCOOBY-0-SERIAL_BRIDGE_CRITICAL_ERROR_RATE : Reloading [chars] due to critically high serial bridge error rate.

Explanation	A Serial Bridge has experienced a persistently high error rate. The condition is serious and the card must be reloaded. This could be due to a hardware or software driver defect.
Recommended Action	Copy the message exactly as it appears on the console or in the system log, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.

SDFLASH

%SDFLASH-6-DEVICE_ENABLED : SDFlash device enabled

Explanation	SDFlash device is enabled in the system.
Recommended Action	No action is required.

%SDFLASH-1-DEVICE_DISABLED : SDFlash device disabled

Explanation	SDFlash device is disabled from the system. Please enable it for correct operation of the switch.

%SDFLASH-1-DEVICE_DISABLED : SDFlash device disabled

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

SDLC

%SDLC-4-DROPPED : Dropped SDLC packet from SDLC hold queue

Explanation	An SDLC frame had to be dropped from the output hold queue, usually because of excessive congestion on the output link.
Recommended Action	If this message occurs frequently, determine why your SDLC link is being overloaded with data and resolve the cause (typically by either increasing bandwidth to your SDLC line or reducing the load on your link).

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

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

%SDLC-3-NOINPIDB : Input idb not set

Explanation	This is a software error. A frame was given to the SDLC handler to process, but the interface on which the frame arrived is not known.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the show tech-support command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

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

Explanation	A FRMR frame was received. This can be due to a noisy serial line, an overloaded SDLC device, or corrupted data.
Recommended Action	If this message recurs, service the serial line and the devices attached to it.

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

Explanation	A bad SDLC frame was received.
Recommended Action	If this message recurs, check the SDLC serial line and the devices attached to it.

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

Explanation	A bad SDLC frame was received.
Recommended Action	If this message recurs, check the SDLC serial line and the devices attached to it.

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

Explanation	An information frame was received from the other end of the SDLC link that was larger than allowed with the N1 parameter on this link.
Recommended Action	Either increase the value of the N1 parameter for this interface on the router or reduce the size of the maximum information frame sent by the other end of the link.

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

Explanation	A bad SDLC frame was received.
Recommended Action	If this message recurs, check the SDLC serial line and the devices attached to it.

%SDLC-4-SDLC_ERR : SDLC_ERROR with no poll

Explanation	A protocol error was detected on a secondary station, but FRMR could not be sent because the station did not own the poll bit. This message indicates either poor line conditions or a faulty SDLC implementation.
Recommended Action	If this message recurs, run traces on the SDLC line. Copy the error message exactly as it appears, and report it to your technical support representative.

%SDLC-2-ILLEGSTATE : [chars], illegal state for addr [hex], [chars]([dec])

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

%SDLC-2-NOPOINTER : AW_SDLC_SEC with no sdllc_llc pointer.

Explanation	An error condition occurred during SDLLC initiation.
Recommended Action	No action is required. The SDLLC session will restart without operator intervention.

%SDLC-3-CONFIGERR : [chars], addr [hex], Sent SNRM, received SNRM. Check link station roles.

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

%SDLC-4-NOUA : [chars], addr [hex] received command [hex] in response to SNRM, expected UA

Explanation	The router received a frame other than a UA in response to a SNRM.
Recommended Action	Check the end station to see if the SNA stack is up and running.

%SDLC-5-INVLDGRPPOLL : Interface [chars], not configured for group-poll frame, received [hex]

Explanation	An unnumbered poll (UP) was received with the wrong group poll address.
Recommended Action	Make sure the group poll address configured on the router matches the one configured in the physical unit macro (GP3174=XX) in the Network Control Program (NCP) generate file.

%SDLC-4-INVLDGRPCFG : Interface [chars], ignoring group-poll mismatch, UPOLL [hex]

Explanation	A hardware or software error occurred.

%SDLC-4-INVLDGRPCFG : Interface [chars], ignoring group-poll mismatch, UPOLL [hex]

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

%SDLC-4-BADFRAME : [chars], Received bad SDLC [chars]frame, address [hex], control [hex]

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

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

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

%SDLC-3-DLU_ERROR : [chars], DLU failed to close station [hex] before re-opening, [chars]/[chars]

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

%SDLC-4-XID_NOMATCH : [chars], XID mismatch for [hex]. CONNECTION REJECTED

Explanation	An inbound exchange identification (XID) from a PU 2.0/PU 2.1 node was rejected. The targeted SDLC address is displayed. The XID information is displayed in a subsequent message = SDLLC-6-XID_DISPLAY or SDLLC-6-FORMAT.
Recommended Action	This is a security feature. Additional information is displayed to help trace the source of the rejected XID. If the message is undesirable, simply remove the XID statement from the router configuration.

%SDLC-6-XID_DISPLAY : sa [enet] da [enet] ss [hex] ds [hex] [[hex][hex][hex][hex]]

Explanation	This message supplies the information for the received and rejected XID.
Recommended Action	See the SDLC-6-XID_NOMATCH error message.

%SDLC-6-XID_FORMAT : Unsupported XID format received, format [dec]

Explanation	An inappropriate exchange identification (XID) format was received for this mode of SDLLC operation. Review the type of devices you are connecting with SDLLC to make sure they are supported.
Recommended Action	See the SDLLC-6-XID_NOMATCH error message.

SDLLC

%SDLLC-5-ACT_LINK : SDLLC: [chars] LINK address [hex] ACTIVATED: [chars]

Explanation	An SDLLC media conversion session was activated.
Recommended Action	No action is required.

%SDLLC-5-DACT_LINK : SDLLC: [chars] LINK address [hex] DEACTIVATED: [chars]

Explanation	An SDLLC media conversion session was deactivated. If deactivation is a result of an error condition, this message will include a reason.
Recommended Action	If the message does not include a description of an error, the deactivation was normal and the message is for information only. If the message does include a description of an error, begin problem analysis. Determine whether session loss is related to LLC2 timers by issuing the debug llc2-err command. If the problem is related to LLC2 timers, consider using SDLLC with the local acknowledgment feature. Copy the error message exactly as it appears, and report it to your technical support representative.

SDVXLAN

%SDVXLAN-3-VXLAN_TUN_FULL : Auto-tunnel ID is running out now

Explanation	All the vxlan auto-tunnel ID through the tunnel range was used, no more id available
Recommended Action	If the auto-tunnel ID is running out, will need to config the auto-tunnel range to expand it

SDWAN_PROXY

%SDWAN_PROXY-3-SDWAN_MEM_REQ_FAILED : SDWAN IPC subtype: [dec]

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

%SDWAN_PROXY-3-SDWAN_MEM_EXTEND_FAILED : SDWAN IPC subtype: [dec]

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

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

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

%SDWAN_PROXY-4-PROXY_INVALID_MSG : QFP SDWAN Proxy received invalid message type [dec]

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

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

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

%SDWAN_PROXY-3-PROXY_BAD_MSG : QFP SDWAN Proxy received bad length message type [dec]

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

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

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

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

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

SEC through SFP

SEC

%SEC-4-TOOMANY : Box secured, too many options on internal packet

Explanation	No room for all desired IP header options. Packet discarded.
Recommended Action	Configure for fewer IP header options.

%SEC-2-NOOPT : Box secured, no option on internal packet

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

%SEC-2-NOTSEC : First opt in tcb not BASIC security

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

%SEC-2-SECINS : Security opt in tcb not SECINSERT

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

%SEC-3-NOMAX : No default for NLESO defined

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

%SEC-6-IPACCESSLOGNP : list [chars] [chars] [dec] [IP_address] [chars]-> [IP_address], [dec] packet[chars] [chars]

Explanation	A packet matching the log criteria for the given access list was detected.
Recommended Action	No action is required.

%SEC-6-IPACCESSLOGDP : list [chars] [chars] [chars] [IP_address] [chars]-> [IP_address] ([dec]/[dec]), [dec] packet[chars] [chars]

Explanation	A packet matching the log criteria for the given access list was detected.
Recommended Action	No action is required.

%SEC-6-IPACCESSLOGP : list [chars] [chars] [chars] [IP_address]([dec]) [chars]-> [IP_address]([dec]), [dec] packet[chars] [chars]

Explanation	A packet matching the log criteria for the given access list was detected.
Recommended Action	No action is required.

%SEC-6-IPACCESSLOGRP : list [chars] [chars] [chars] [IP_address] [chars]-> [IP_address], [dec] packet[chars] [chars]

Explanation	A packet matching the log criteria for the given access list wasdetected.
Recommended Action	No action is required.

%SEC-6-IPACCESSLOGS : list [chars] [chars] [IP_address] [dec] packet[chars] [chars]

Explanation	A packet matching the log criteria for the given access list was detected.
Recommended Action	No action is required.

%SEC-6-IPACCESSLOGRL : access-list logging rate-limited or missed [dec] packet[chars]

Explanation	Some packet matching logs were missed because the access list log messages were rate-limited or no access list log buffers were available.
Recommended Action	No action is required.

%SEC-4-SHELFCTLRTELOPT : malformed option on vty%t %c%c%c[dec] len [dec] [chars]

Explanation	A packet containing shelf controller telnet options was malformed. Options were ignored or truncated.
Recommended Action	No action is required.

SEC_LOGIN

%SEC_LOGIN-1-QUIET_MODE_ON : Still timeleft for watching failures is [int] secs, [user: [chars]] [Source: [chars]] [localport: [int]] [Reason: [chars]] [ACL: [chars]] at [chars]

Explanation	Quiet Mode is ON. No request for connection is accepted other than allowed by the Access List, if configured for the blocking period. Else an implicity *deny all* login's will be in force
Recommended Action	As all the requests from other sources are blocked check ACL and add any source addr. if needed.

%SEC_LOGIN-5-QUIET_MODE_OFF : Quiet Mode is OFF, because [chars] at [chars]

Explanation	Quiet Mode is OFF. Router now operates in normal connection processing mode

%SEC_LOGIN-5-QUIET_MODE_OFF : Quiet Mode is OFF, because [chars] at [chars]

Recommended Action	A notification that the device now operates in normal connection processing mode and the reason why it switched mode is also indicated with the notification.

%SEC_LOGIN-4-LOGIN_FAILED : Login failed [user: [chars]] [Source: [chars]] [localport: [int]] [Reason: [chars]] at [chars]

Explanation	Invalid User Name or Password is given from terminal.
Recommended Action	A notification to indicate that login failed

%SEC_LOGIN-5-LOGIN_SUCCESS : Login Success [user: [chars]] [Source: [chars]] [localport: [int]] at [chars]

Explanation	A successful login happened with the device.
Recommended Action	A notification that login succeeded.

%SEC_LOGIN-3-INIT_FAILED : Secure Login Initialization failed. [chars]

Explanation	Initialization of Secure Login Subsystem failed
Recommended Action	Copy the error message exactly as it appears; include the stack trace; and report it to your technical support representative.

SENSORMGR

%SENSORMGR-3-NOMEM : Sensor manger failed to allocate memory : [chars]

Explanation	The sensor manager was not able to add a new threshold node to its database.
Recommended Action	TBD

SERDES

%SERDES-3-SERDES_CRITICAL_ERROR : Critial error [chars] in FRU [chars] when [chars]

Explanation	A critical error was occurred. The condition is serious and the card must be reloaded. This could be due to bad or unknown hardware (chassis or modules). Chassis Manager could also initialize the Serdes library with incorrect input parameters.

%SERDES-3-SERDES_CRITICAL_ERROR : Critial error [chars] in FRU [chars] when [chars]

Recommended Action	Copy the message exactly as it appears on the console or in the system log. Collect the output of show platform, show verson, show log, sh diag chassis eeprom detail, show diagnostic slot <slot#> eeprom detail, and any other relevant logs. Contact your Cisco technical support representative.

%SERDES-5-SERDES_NOTICE : from FRU [chars], [chars].

Explanation	CMAN sends a significant Serdes event to IOSD to log it
Recommended Action	No action is required for this notice.

SERIAL_12IN1

%SERIAL_12IN1-3-SPI4_ERR : SPA [dec]/[dec]: [chars] was encountered. Intr status: [hex]

Explanation	The SPA driver detected a Hardware error condition on the SPA card. This might result in improper operation.
Recommended Action	The SPA driver has encountered a Hardware error on the SPA's SPI4 bus. Please power down and reseat the indicated SPA card. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml. If you still require assistance, open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging**, **show monitor event-log spa all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

%SERIAL_12IN1-1-CLOCKRATE : [chars]:Link has been brought [chars] due to clock rate change, threshold configured = [int], received clock rate = [int]

Explanation	The received clock rate is changed from below the threshold configured to above or vice versa..
Recommended Action	Check the received clock rate from the provider end and the clockrate threshold configuration, if the clock rate goes below the threshold configured, interface is brought down

%SERIAL_12IN1-3-SW_ERR : [chars]: A software error was encountered at [chars]: [chars]

Explanation	The SPA driver detected a software error condition on the SPA card. This might result in improper operation.

%SERIAL_12IN1-3-SW_ERR : [chars]: A software error was encountered at [chars]: [chars]

Recommended Action	The SPA driver has encountered a software error. Please power down and reseat the indicated SPA card. Copy the error message exactly as it appears and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging**, **show monitor event-log spa all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

%SERIAL_12IN1-3-SW_ERR_1 : [chars]: A software error was encountered at [chars]: [chars] [hex]

Explanation	The SPA driver detected a software error condition on the SPA card. This might result in improper operation.
Recommended Action	The SPA driver has encountered a software error. Please power down and reseat the indicated SPA card. Copy the error message exactly as it appears and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging**, **show monitor event-log spa all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

%SERIAL_12IN1-3-SW_ERR_2 : [chars]: A software error was encountered at [chars]: [chars] [hex]/[hex]

Explanation	The SPA driver detected a software error condition on the SPA card. This might result in improper operation.
Recommended Action	The SPA driver has encountered a software error. Please power down and reseat the indicated SPA card. Copy the error message exactly as it appears and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging**, **show monitor event-log spa all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

SERVICES

%SERVICES-2-NOINIT : Error initializing services: [chars]

Explanation	An application failed to initialize the core services library. The application will not be able to communicate with other modules on the system.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SERVICES-2-NORESOLVE_LOCAL : Error resolving local FRU: [chars]

Explanation	An application was not able to determine its local FRU. The application was likely started incorrectly.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SERVICES-2-NORESOLVE_ACTIVE : Error resolving active FRU: [chars]

Explanation	An application was not able to determine the active FRU. The application was likely started incorrectly.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SERVICES-2-NORESOLVE_STANDBY : Error resolving standby FRU: [chars]

Explanation	An application was not able to determine the standby FRU. The application was likely started incorrectly.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SERVICES-0-INVALID_OWNERSHIP : Error using service handle [IPV6 address] - invalid ownership ([IPV6 address], [IPV6 address])

Explanation	A multi-thread application is trying to incorrectly use the services library. Applications must follow thread confinement strategy with the services library. Each thread of the application must initialize private managed context of the service library.
Recommended Action	Copy the error message, tracebacks and version information and contact a Cisco representative.

%SERVICES-3-INVALID_CHASFS : Thread [IPV6 address] has no global chasfs context

Explanation	A multi-thread application is trying to incorrectly use the services library. Applications must follow thread confinement strategy with the services library. Each thread of the application must initialize private managed context of the service library.
Recommended Action	Copy the error message, tracebacks and version information and contact a Cisco representative.

SERVICE_CHAIN

%SERVICE_CHAIN-3-ALLOC_FAILED : Allocation of [chars] memory failed for Service Chaining feature

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

%SERVICE_CHAIN-3-PKT_REPLICA_INIT_FAILED : Failed to register with generic packet replication for Service Chaining feature

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

SESSION_MGR

%SESSION_MGR-5-START :

Explanation	Starting an authentication method
Recommended Action	Message notification informing about the session manager client is being started to authenticate the endpoint attached to the interface

%SESSION_MGR-5-SUCCESS :

Explanation	Authorization was successful.
Recommended Action	Client connected to the switch has been successfully authorized by the session manager framework

%SESSION_MGR-5-FAIL :

Explanation	Authorization was unsuccessful.
Recommended Action	Authorization was unsuccessful for the client. Collect the smd logs and system console logs

%SESSION_MGR-5-VLANASSIGN :

Explanation	VLAN assignment to an interface for the session
Recommended Action	No action is required.

%SESSION_MGR-5-SECURITY_VIOLATION :

Explanation	A host on the specified interface is attempting to gain access into the network or is trying to authenticate in a host mode that does not support the number of hosts attached. This is treated as a security violation and the port has been error-disabled.
Recommended Action	Ensure that the port is configured to support the host count attached. Enter the **shutdown** command followed by **no shutdown** command to restart the port.

%SESSION_MGR-7-STOPPING :

Explanation	Stopping the current authentication method
Recommended Action	No action is required.

%SESSION_MGR-7-NOMOREMETHODS :

Explanation	All available authentication methods have been tried
Recommended Action	No action is required.

%SESSION_MGR-5-MACMOVE :

Explanation	Client has moved to a new interface without logging off on the previous one.
Recommended Action	No action is required.

%SESSION_MGR-5-MACREPLACE :

Explanation	A new client has triggered a violation causing an existing client to be replaced
Recommended Action	No action is required.

%SESSION_MGR-4-UNAUTH_MOVE :

Explanation	Move while not authenticated on old IDB
Recommended Action	No action is required.

%SESSION_MGR-4-ILLEGAL_TRACE_REQ :

Explanation	Component ID %d not registered.
Recommended Action	No action is required.

%SESSION_MGR-0-CONFIG_CORRUPT :

Explanation	Interface configuration field was modified unexpectedly.
Recommended Action	No action is required.

SFF8472

%SFF8472-2-NOMEM : Not enough memory available for [chars]

Explanation	The sff8472 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. Issue the show tech-support command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SFF8472-3-THRESHOLD_VIOLATION : [chars]: [chars]; Operating value: [chars], Threshold value: [chars].

Explanation	There has been a threshold violation as specified in the message. If the violation has occured only during bootup/OIR/link up/down, you may ignore the message. Otherwise, the violations in optical tx/rx power are most likely due to incompatible/defective optical components or too long/short optical cables. It may also be due to faulty transceiver.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the show tech-support command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SFF8472-3-UNEXPECTEDEVENT : Process received unknown event (maj [hex], min [hex]).

Explanation	A process can register to be notified when various events occur in the router. This message indicates that a process received an event it did not know how to handle.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SFF8472-3-INTERNAL_ERROR : [chars]

Explanation	The SFF8472 subsystem encountered an internal software error. The error message contains text which can be used to help identify the nature of the problem.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the show tech-support command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SFF8472-3-READ_ERROR : [chars]

Explanation	There was an error reading digital optical monitoring information from the transceiver at the specified interface.
Recommended Action	Please try removing and reinserting the transceiver. If it still does not work, please replace the transceiver.

SFP

%SFP-3-EEPROM_DUP_ERR : SFP on ports [chars] and [chars] have duplicate serial numbers

Explanation	The GBIC/SFP was identified as a Cisco GBIC, but its vendor id and serial number match that of another GBIC on the system.
Recommended Action	Report to Cisco tech support.

%SFP-4-EEPROM_READ_ERR : Error in reading SFP serial ID in [chars]

Explanation	Error when reading SFP type from EEPROM
Recommended Action	Please remove SFP from this Port

%SFP-4-EEPROM_CRC_ERR : EEPROM checksum error for SFP in [chars]

Explanation	The SFP in the port specified in the error message has invalid EEPROM data.
Recommended Action	Remove the SFP from the specified port.

%SFP-4-EEPROM_SECURITY_ERR : SFP in [chars] failed security check

Explanation	The SFP in the port specified in the error message has invalid EEPROM data.
Recommended Action	Remove the SFP from the specified port.

%SFP-4-REMOVED : SFP module removed from [chars]

Explanation	The online insertion and removal (OIR) facility detected the removal of a SFP module from the interface specified in the error message.
Recommended Action	No action is required.

%SFP-6-INSERTED : SFP module inserted in [chars]

Explanation	The online insertion and removal (OIR) facility detected a newly inserted SFP module for the interface specified in the error message.
Recommended Action	No action is required.

%SFP-3-NOT_SUPPORTED : Detected for SFP module in [chars], module disabled

Explanation	The SFP module for the interface specified in the error message is not a cisco supported module. As a result of the error, the module is disabled.
Recommended Action	Replace the module with a cisco supported SFP.

%SFP-3-NOT_COMPATIBLE : Detected for SFP module in [chars], module disabled

Explanation	The SFP module for the interface specified in the error message is not compatible with the interface. As a result of the error, the module is disabled.
Recommended Action	Replace the module with a compatible SFP.

SGBP through SIP_SUPPSERV

- SGBP
- SGPM
- SHDSL
- SHELL_ISSU
- SHFWD
- SIGNAL_OCE
- SIP
- SIPPHONE
- SIPSPA
- SIP_SUPPSERV

SGBP

%SGBP-3-INVALIDB : [chars] for bundle '[chars]' -- [chars]

Explanation	An internal software error has occurred.
Recommended Action	LOG_STD_ACTION

%SGBP-7-NEWL : Local query #[dec] for [chars], count [dec], ourbid [dec]

Explanation	This message is generated only when SGBP query debugging is enabled. It provides information about queries in progress.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-DUPL : Duplicate local query #[dec] for [chars], count [dec], ourbid [dec]

Explanation	This message is generated only when SGBP query debugging is enabled. It provides information about queries in progress.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-NEWP : Peer query #[dec] for [chars], count [dec], peerbid [dec], ourbid [dec]

Explanation	This message is generated only when SGBP query debugging is enabled. It provides information about queries in progress.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-CANCEL : Local query #[dec]:[dec] for bundle [chars]

Explanation	This message is generated only when SGBP query debugging is enabled. It provides information about queries in progress.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-DONE : Query #[dec] for bundle [chars], count [dec], master is [chars]

Explanation	This message is generated only when SGBP query debugging is enabled. It provides information about queries in progress.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-3-TIMEOUT : Peer [IP_address] bidding; state 'PB [chars]' deleted

Explanation	This message is generated only when SGBP event debugging is enabled. It indicates that a peer timed out while closing a query. The connection has been dropped.
Recommended Action	Check the peer equipment and network media for problems.

%SGBP-7-MQB : tBundle: [chars]tState: [chars]tOurBid: %03d

Explanation	This message is part of a list of debug states displayed at the request of the operator.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-PB : t[IP_address]tState: [chars]tBid: %03d Retry: [dec]

Explanation	This message is part of a list of debug states displayed at the request of the operator.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-EQUAL : [dec] equal highest bids, randomly select bid# [dec]

Explanation	This message is generated only when SGBP query debugging is enabled. It provides information about queries in progress.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-HANGUP : I am a forward-only member, can't forward bundle [chars], hangup

Explanation	This message is generated only when SGBP query, event and/or error debugging is enabled. This indicates a routine change of role for the router in its SGBP interactions with its peers.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-3-INVFIELD : [chars] field type [hex] has [chars] [dec] (expected [dec])

Explanation	This message indicates that an SGBP request from a peer contained invalid or corrupt data.
Recommended Action	Check the peer equipment or network media for any problems.

%SGBP-7-RCVD : MQ [chars] from [IP_address] for query [dec]:[dec], bundle [chars], bid [dec], prot[chars]

Explanation	This message is generated only when SGBP message debugging is enabled. It indicates that an SGBP packet was received.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-SENT : MQ [chars] to [IP_address] for query [dec]:[dec], bundle [chars], bid [dec], prot[chars], len [dec]

Explanation	This message is generated only when SGBP message debugging is enabled. It indicates that an SGBP packet was sent.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-3-UNEXP : MQ [chars] from [IP_address] for query [dec]:[dec], bundle [chars], bid [dec], state [chars]

Explanation	This message is generated only when SGBP error debugging is enabled. The SGBP connection has entered an unexpected state, possibly due to a software error.
Recommended Action	LOG_STD_ACTION

%SGBP-3-INVALID : MQ message with [chars]

Explanation	This message is generated only when SGBP error debugging is enabled. An invalid message was received and discarded.
Recommended Action	This probably indicates an error in network media or a peer which is generating erroneous packets.

%SGBP-7-MQ : [chars] ([hex]) for query [dec]:[dec], bundle [chars], bid [dec], len [dec]

Explanation	This message is generated only when SGBP error debugging is enabled. This message indicates that an SGBP query has been received.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-3-PEERERROR : Peer [IP_address] [chars] during 'PB [chars]' state for bundle [chars]

Explanation	An internal software error has occurred.
Recommended Action	LOG_STD_ACTION

%SGBP-3-UNKNOWNPEER : Event [hex] from peer at [IP_address]

Explanation	This message is generated only when SGBP error debugging is enabled. An SGBP event came from a network host which was not recognizable as an SGBP peer. The event was discarded.

%SGBP-3-UNKNOWNPEER : Event [hex] from peer at [IP_address]

Recommended Action	Check if a network media error could have corrupted the address, or if peer equipment is malfunctioning to generate corrupted packets. Depending on the network topology and firewalling, SGBP packets from a non-peer host could indicate probing and attempts to breach security. If there is a chance your network is under attack, obtain knowledgeable assistance. LOG_STD_ACTION

%SGBP-3-UNKNOWNEVENT : Event [hex] from peer at [IP_address]

Explanation	This message is generated only when SGBP error debugging is enabled. An invalid event occurred, which probably indicates an internal software error.
Recommended Action	LOG_STD_ACTION

%SGBP-5-SHUTDOWN : [chars]

Explanation	This message is generated only when SGBP event debugging is enabled. A process involved in SGBP was terminated upon completion of its work.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-5-STARTUP : [chars]

Explanation	This message is generated only when SGBP event debugging is enabled. An process involved in SGBP was started.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-CLOSE : Closing pipe for member [chars]

Explanation	This message is generated only when SGBP event debugging is enabled. An interprocess communication link was closed.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-5-ARRIVING : New peer event for member [chars]

Explanation	This message is generated only when SGBP event debugging is enabled. An SGBP peer joined the group.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-5-LEAVING : Member [chars] leaving group [chars]

Explanation	This message is generated only when SGBP event debugging is enabled. An SGBP peer has left the group.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-3-UNKNOWN : [IP_address] not known

Explanation	This message is generated only when SGBP error debugging is enabled. An SGBP connection was attempted by a host which was not recognized as a peer. The connection was not accepted.
Recommended Action	Depending on the network topology and firewalling, SGBP connection attempts from a non-peer host could indicate probing and attempts to breach security. If there is a chance your network is under attack, obtain knowledgeable assistance. LOG_STD_ACTION

%SGBP-1-AUTHFAILED : Member [chars] failed authentication

Explanation	This message is generated only when SGBP hellos or errors debugging is enabled. This indicates that an attempted peer connection ended in authentication failure. A peer may be misconfigured. Or this could indicate an attempted security breach.
Recommended Action	Check if the peer is correctly configured. If there is a chance your network is under attack, obtain knowledgeable assistance. LOG_STD_ACTION

%SGBP-7-CHALLENGED : Rcv Hello Challenge message from member [chars] using [IP_address]

Explanation	This message is generated only when SGBP hellos debugging is enabled. This indicates that an authentication challenge was received from a peer.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-RESPONSED : Rcv Hello Response message from member [chars] using [IP_address]

Explanation	This message is generated only when SGBP hellos debugging is enabled. This indicates that a response to an authentication challenge was received from a peer.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-CHALLENGE : Send Hello Challenge to [chars] group [chars]

Explanation	This message is generated only when SGBP hellos debugging is enabled. This indicates that an authentication challenge was sent to a peer.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-RESPONSE : Send Hello Response to [chars] group [chars]

Explanation	This message is generated only when SGBP hellos debugging is enabled. This indicates that a response to an authentication challenge was sent to a peer.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-NORESP : Failed to respond to [chars] group [chars], may not have password

Explanation	An authentication challenge was received but there was no information available to respond to it. This probably indicates a configuration error, a missing password.
Recommended Action	Refer to the documentation to configure a username with the same name as the SGBP group.

%SGBP-1-UNKNOWNHELLO : Rcv Hello message from non-group member using [IP_address]

Explanation	This message is generated only when SGBP hellos or error debugging is enabled. An SGBP Hello message was received from a host that is not a member of the SGBP group, and discarded.
Recommended Action	This is a configuration error. Either that host should be listed in this router's configuration as a member (if that is actually true) or the other host is misconfigured to attempt to join this group.

%SGBP-1-MISSCONF : Possible misconfigured member [chars] using [IP_address]

Explanation	This message is generated only when SGBP hellos or error debugging is enabled. This indicates a configuration error. Either this router has an incorrect IP address listed for the peer or the peer is using an incorrect IP address.
Recommended Action	Find and correct the configuraton error.

%SGBP-7-RCVINFO : Received Info Addr = [IP_address] Reference = [hex]

Explanation	This message is generated only when SGBP hellos debugging is enabled. It indicates that data was received by a listener process.

%SGBP-7-RCVINFO : Received Info Addr = [IP_address] Reference = [hex]

Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-SENDINFO : Send Info Addr to [chars]

Explanation	This message is generated only when SGBP hellos debugging is enabled. It indicates that data was sent by the listener process in response to received data.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-KEEPALIVE : Sending Keepalive to [chars], retry=[dec]

Explanation	This message is generated only when SGBP hellos debugging is enabled. It indicates that a keepalive message was send to an SGBP member.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-KEEPALIVE_TIMEOUT : Keepalive timeout on [chars]

Explanation	This message is generated only when SGBP hellos debugging is enabled. It indicates that keepalive messages were not answered so the pipe to an SGBP member has been closed.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-SENDAUTHOK : Send Hello Authentication OK to member [chars] using [IP_address]

Explanation	This message is generated only when SGBP hellos debugging is enabled. A message was send or re-sent to another SGBP member indicating that an authentication attempt from that member succeeded.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-AUTHOK : Member [chars] State -> AuthOK

Explanation	This message is generated only when SGBP errors or events debugging is enabled. A message was received from another SGBP member indicating that an authentication attempt to that member succeeded.
Recommended Action	LOG_STD_NO_ACTION

%SGBP-7-WAITINFO : Member [chars] State -> WaitInfo

Explanation

**Recommended
Action**

%SGBP-7-ACTIVE : Member [chars] State -> Active

Explanation This message is generated only when SGBP errors or events debugging is enabled. This indicates that a link to another SGBP member has completed the interactions to set it up and is now entering the active state.

**Recommended
Action** LOG_STD_NO_ACTION

%SGBP-1-DIFFERENT : Rcv [chars]'s addr [IP_address] is different from the hello's addr [IP_address]

Explanation The internally-configured address for an SGBP member does not match the address of the host that tried to authenticate as that member. The configuration is incorrect on either this system or the other member - they must agree.

**Recommended
Action** Determine which configuration is in error and fix it.

%SGBP-1-NOTAUTH : Rcv Connection request by non-authenticated member [chars]

Explanation

**Recommended
Action**

%SGBP-1-DUPLICATE : Rcv Duplicate bundle [chars] is found on member [chars]

Explanation This message is generated only when SGBP hellos or errors debugging is enabled. This indicates that a duplicate bundle was received from the same peer more than once. The duplicate was discarded.

**Recommended
Action** LOG_STD_RECUR_ACTION

%SGBP-3-INVALIDADDR : Stack group [chars] IP address [IP_address]

Explanation	The current configuration does not allow a local IP address to be configured using **sgbp member <address>**. Any local address is automatically removed fro the SGBP group.
Recommended Action	Do not configure **sgbp member <address>** using a local IP address.

SGPM

%SGPM-3-POLICY_INCOMPLETE_RULE : Subscriber policy rule ([chars]), event ([chars]) is missing a mandatory action for service ([chars] automatically adding.

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

%SGPM-3-POLICY_CTX_POISONED : Policy context [hex] has bad magic, [hex].

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

%SGPM-3-PACL_NAME_TOO_LONG : The pacl name ([chars]-[chars]) is too long, it exceeds the maximum length of [dec].

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

%SGPM-3-POLICY_RULE_SERVICE_CONFIG_ERROR : Service ([chars]) is configured incorrectly, service_failed event will be thrown

Explanation	In policy rule, the service is configured incorrectly, then a service-failed event will be thrown.

%SGPM-3-POLICY_RULE_SERVICE_CONFIG_ERROR : Service ([chars]) is configured incorrectly, service_failed event will be thrown

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

%SGPM-3-POLICY_CTX_ACTIVE : Active policy context [hex] has bad magic, [hex].

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

SHDSL

%SHDSL-3-NOMEM : SHDSL [chars] malloc failed : out of memory

Explanation	The router does not have enough memory installed to run this SHDSL feature
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SHDSL-1-INIT : SHDSL([dec]/[dec]/[dec]): [chars].

Explanation	An attempt to initialize the SHDSL NIM failed. This module cannot be 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.

%SHDSL-1-FWDNLD : [chars] [chars].

Explanation	An attempt to download firmware for SHDSL card failed. This interface cannot be used.

%SHDSL-1-FWDNLD : [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.

%SHDSL-1-TCLAYER : SHDSL([dec]/[dec]/[dec]): [chars] [dec].

Explanation	if CPE-CO mode(ATM/EFM) configuration is improper This Error Message is generated which means that the peer device has different TC layer or no common TC layer was selected during handshake.
Recommended Action	Change the mode(ATM to EFM or EFM to ATM)configuration on CPE or CO side

%SHDSL-1-INFO : SHDSL([dec]/[dec]/[dec]): [chars].

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

%SHDSL-4-ERRORINT : Error interrupt: [chars] received

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

%SHDSL-6-DSLGROUP_UPDOWN : [chars] dsl-group [dec] state changed to [chars].

Explanation	DSL Group state is changed.
Recommended Action	No action is required.

RSCMSM through SWPORT_PROXY

%SHDSL-6-EFM_BOND_LINK_RATE_CHANGE : [chars] EFM Link([dec]) bandwidth is changed.

Explanation	SHDSL link is trained to a different rate EFM bonding group.
Recommended Action	No action is required.

%SHDSL-6-EFM_ACT_LINK_CHANGE : [chars] EFM Group [dec] has [dec] active links, active link bitmap is [hex].

Explanation	Active Links were added or removed from the Group, changing its bandwidth.
Recommended Action	No action is required.

%SHDSL-5-DYING_GASP : Power failure at CPE detected at link no [dec].

Explanation	CPE has gone down because of power failure.
Recommended Action	No action is required.

%SHDSL-3-EFM_FRAME_SIZE : [chars] [chars].

Explanation	An attempt to change the maximum frame size in EFM bonding scenario 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.

%SHDSL-1-EFM_BOND : [chars] CPE-CO configuration mismatch detected for link:[dec].

Explanation	If CPE is configured in efm bonding and CO is configured in plain 2wire then link will come-up in plain 2-wire. Since CPE is configured in efm bonding, CPE will ignore link up event
Recommended Action	Correct either CPE or CO's configuration

%SHDSL-3-FIRMWARE : [chars] [chars]

Explanation	Error occured in the SHDSL module firmware.

%SHDSL-3-FIRMWARE : [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.

%SHDSL-6-PHY_FWDNLD : [chars] [chars] [chars]

Explanation	Info about status of SHDSL Phy firmware download.
Recommended Action	No action is required.

%SHDSL-3-PHY_FWDNLD_FAIL : [chars] [chars] could be incomplete or corrupted or not present in [chars]

Explanation	Error occured in the SHDSL Phy firmware download.
Recommended Action	Use correct firmware package file

%SHDSL-1-NGIO_DROP : Command dropped since phy re-init is in progress.

Explanation	If ngio_drop_messages is set, then the messages are dropped in host
Recommended Action	Wait till the phy reinit is complete

SHELL_ISSU

%SHELL_ISSU-2-INIT : Shell ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation	The Shell 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.

%SHELL_ISSU-3-MSG_NOT_OK : Shell ISSU client 'Message Type [dec]' is not compatible

Explanation	The Shell 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>)

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

Explanation	The Shell ISSU client failed to calculate the MTU for the specified message. The Shell 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>)

%SHELL_ISSU-3-INVALID_SESSION : Shell ISSU client does not have a valid registered session.

Explanation	The Shell 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>)

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

Explanation	The Shell 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>)

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

Explanation	The Shell 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>)

%SHELL_ISSU-2-SESSION_NEGO_FAIL_START : Failed to start Shell ISSU session negotiation. Error: [dec] ([chars])

Explanation	The Shell ISSU client failed to start session negotition. If a problem occurs with the ISSU session start, the standby device cannot be brought up properly.

%SHELL_ISSU-2-SESSION_NEGO_FAIL_START : Failed to start Shell ISSU session negotiation. Error: [dec] ([chars])

Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id>)

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

Explanation	The Shell 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)

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

Explanation	The Shell 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)

%SHELL_ISSU-2-COPY_SHELL_INIT_TO_STANDBY : Failed to copy the shell init file [chars] to standby

Explanation	If the shell init file is not copied to standby, the shell init file CLI will not be applied to maintain the consistancy between active and standby.
Recommended Action	LOG_STD_SH_CMD_ACTION(Try manually copy a file to standby to see if it's a filesystem issue. It could be a space issue in the standby disk)

%SHELL_ISSU-2-SAVE_TRIGGER_FOR_REAPPLY : Failed to add trigger to the re-apply queue. Trigger: [chars], Env: [chars]

Explanation	Triggers that failed to get applied during ISSU must be saved and then re-applied after ISSU completes.
Recommended Action	LOG_STD_SH_CMD_ACTION(Manually re-apply the trigger after ISSU completes)

SHFWD

%SHFWD-6-PACKET_TRACE_DONE : Packet Trace Complete: [chars]

Explanation	Packet trace cmd initiated by admin is complete
Recommended Action	No action is required

%SHFWD-6-PACKET_TRACE_FLOW_ID : Packet Trace Flow id is [int]

Explanation	Packet trace instance can be tracked by flowid
Recommended Action	No action is required

%SHFWD-6-PACKET_TRACE_FAIL : Show fwd is failed at [chars]

Explanation	Packet trace cmd initiated by admin is fail
Recommended Action	Collect the trace from all the switch using the cli \ (show platform software trace fed switch <>)

SIGNAL_OCE

%SIGNAL_OCE-3-SOCE : Failed to [chars] signal oce [chars][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.

%SIGNAL_OCE-3-SOCE_SB_OPERATION_FAILED : Failed to [chars] subblock on [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.

SIP

%SIP-3-QUEUE_ERROR : Unable to enqueue event [chars] ([dec]) to a process watched queue. Current size: [dec], max size: [dec]

Explanation	An internal or external event was dropped because it could not be added to the queue, probably because the queue is full. The result may be minor (retransmission of a SIP message) or major (dropped call), depending on the event which was lost. This error may indicate that the call rate is exceeding the capacity of the gateway. If this is the case, the CPU utilization will be excessively high (above 75%).
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the **show process cpu** command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-INSV_ERROR : Error encountered while trying to bring the SIP component into service

Explanation	During bootup of the gateway, each of the Service Provider Interfaces (SPIs) are brought into service. The SIP SPI creates several processes and notifies the Call Control API (CCAPI) when it is finished. One or more of these tasks failed, so the SIP component will not be properly initialized.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-LIST_ERROR : Unable to create list for [chars]

Explanation	Failure to create a list generally indicates that the router is out of memory, either due to a memory leak or insufficient memory. If the error was generated soon after a reload, its more likely that the router doesn't have enough memory. If the router has been running for a while, a memory leak is more likely. The SIP component is not properly initialized, and SIP calls may not complete properly.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the **show process memory** command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-INTERNAL : [chars]

Explanation

**Recommended
Action**

%SIP-3-UNSUPPORTED : [chars]

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

%SIP-3-INVALID : Invalid [chars] [dec]

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

%SIP-3-BADPAIR : Unexpected [chars] [dec] ([chars]) in state [dec] ([chars]) substate [dec] ([chars])

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

%SIP-6-IGNORE : Unexpected [chars] [dec] ([chars]) in state [dec] ([chars]) substate [dec] ([chars])

Explanation	The SIP state machine has encountered an error while processing an event or timer.

%SIP-6-IGNORE : Unexpected [chars] [dec] ([chars]) in state [dec] ([chars]) substate [dec] ([chars])

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

%SIP-3-CONSTRUCT : Error encountered while trying to construct a [dec] [chars] [chars] message

Explanation	An error was encountered while attempting to construct a SIP request or response message. If malloc errors where also seen, then that is most likely the root of the problem. If no memory allocation errors have occurred, then this may be an internal problem.
Recommended Action	If there were memory allocation errors at the same time as this error, then this error can be ignored. Otherwise: LOG_STD_SH_TECH_ACTION

%SIP-3-NORESOURCE : No resources for [chars]

Explanation	An error was encountered while trying to obtain memory resources for an internal queue or table. If malloc errors where also seen, then that is most likely the root of the problem. If no memory allocation errors have occurred, then this may be an internal problem.
Recommended Action	If there were memory allocation errors at the same time as this error, then this error can be ignored. Otherwise: LOG_STD_SH_TECH_ACTION

%SIP-3-NOMATCH : Unable to find matching CCB for ccCallID [dec]

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

%SIP-5-DIALPEER_STATUS : VoIP dial-Peer <[dec]> is [chars]

Explanation	VoIP dial-peer's operational status is changed

%SIP-5-DIALPEER_STATUS : VoIP dial-Peer <[dec]> is [chars]

Recommended Action	If the dial-peer status is busyout, the session target configured under the dial-peer is not reachable

%SIP-3-DIGITEND : Missing digit end event for '%c' for call ID [chars]

Explanation	A digit begin event was detected without a matching digit end. This is most likely an internal error which is self correcting (the NOTIFY for the digit has been transmitted).
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-FORKING_CODEC : No forking codecs configured for dial-peer [dec], the forked m-lines will be rejected. Forking codecs are [chars]

Explanation	Media forking requests which arrive in an INVITE message are identified by multiple media lines (m-lines) in the SDP. Each media line defines a media stream with destination port and payload types. In order to fork multiple media streams from a single call, all streams must share the same payload type and codec. Only a subset of the full list of SIP codecs are available for media forking, and the dial-peer selected for the call which is to be forked must include one of these supported codecs. This error indicates that the dial-peer does not include one of the supported codecs, so only the original media stream will be maintained; the remaining media streams will be rejected in the response by setting the port number to zero (0) in the SDP.
Recommended Action	Modify the dial-peer configuration to include one of the forking codecs listed using either the codec command or the voice-class codec command.

%SIP-4-MAXSDP : SIP message sent with maximum SDP.

Explanation	An SIP protocol message containing the maximum allowable SDP size has been sent. If the desired SDP was greater than the maximum size limit, the SDP has been truncated at the limit. If the desired SDP was equal to the maximum size limit, no truncation has occurred. This warning may indicate that an SIP request containing an unusually large SDP has been received from an external SIP application for a specific call, resulting in an SIP response with the maximum SDP.
Recommended Action	No action is required.

%SIP-3-DIGITQFULL : Unable to queue DTMF digit. Queue full. size: [dec]

Explanation	A request to queue a DTMF digit was rejected because the DTMF queue is full. A 5xx server error has been returned. This error may indicate that a flood of DTMF digit requests from an external SIP application for a specific call has been recieved in a very short period of time.
Recommended Action	No action is required.

%SIP-3-UNKNOWNOBJ : MIB object [chars].[dec] is not known by MIB API subsystem.

Explanation	The MIB object specified in the SNMP GET PDU has been correctly identified by the SNMP Agent infrastructure, but was not correctly identified by the subsystem responsible for the MIB. Processing of the GET operation cannot continue. The SNMP Agent infrastructure and subsystem responsible for the MIB, under normal conditions, will always be synchronized to the same set of MIB objects (that is, the same version of the MIB). This condition indicates that synchronization has not 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.

%SIP-3-NOGETSTRUCT : No data structure passed to MIB API subsystem.

Explanation	The SNMP Agent MIB subsystem for this MIB did not pass any data structure to the MIB API subsystem for the proper retrieval of the requested object data. Processing of the GET operation cannot continue.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-NOSETDATA : No SET data passed to MIB API subsystem.

Explanation	The SNMP Agent MIB subsystem for this MIB did not pass any data to the MIB API subsystem for the proper assignment of values to the internal data structures of the object. Processing of the SET operation cannot continue.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-6-LONG_DUR_CALL_DETECTED : Long Duration Call is detected [chars]

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

%SIP-3-DIALPEERBWCAC : Calling number [chars], called number [chars], dial-peer [dec], used bandwidth [dec], available bandwidth [dec], requested bandwidth [dec], call state [chars]

Explanation	Bandwidth CAC has rejected the call/media renegotiation due to configured dial-peer bandwidth threshold being exceeded
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the show tech-support command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-INTBWCAC : Calling number [chars], called number [chars], dial-peer [dec], interface [chars], used bandwidth [dec], available bandwidth [dec], requested bandwidth [dec], call state [chars]

Explanation	Bandwidth CAC has rejected the call/media renegotiation due to configured interface bandwidth threshold being exceeded.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the show tech-support command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-PTIME : Unsupported Ptime value [dec], using minimum Ptime value of [dec] on CallID [dec] Codec=[chars]

Explanation	Unsupported Ptime value negotiated

%SIP-3-PTIME : Unsupported Ptime value [dec], using minimum Ptime value of [dec] on CallID [dec] Codec=[chars]

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

%SIP-3-INTCALLCAC : Call rejected due to CAC based on number of calls on the interface, sent response [dec]

Explanation	Interface-calls CAC has rejected the call due to configured int-calls threshold being exceeded.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the show tech-support command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-TOTCALLCAC : Call rejected due to CAC based on Total-calls, sent response [dec]

Explanation	Total-calls CAC has rejected the call due to configured total-calls threshold being exceeded.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the show tech-support command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-CPUCAC : Call rejected due to CAC based on CPU usage, sent response [dec]

Explanation	CPU usage CAC has rejected the call due to configured cpu-avg|cpu-5sec threshold being exceeded.

%SIP-3-CPUCAC : Call rejected due to CAC based on CPU usage, sent response [dec]

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

%SIP-3-MEMCAC : Call rejected due to CAC based on Memory usage, sent response [dec]

Explanation	Memory usage CAC has rejected the call due to configured io-mem|proc-mem|total-mem threshold being exceeded.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the show tech-support command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-MAXCONNCAC : Call rejected due to CAC based on maximum number of connections on dial-peer [dec], sent response [dec]

Explanation	Maximum number of connections CAC has rejected the call due to configured max-conn threshold being exceeded.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the show tech-support command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-5-EVENT_TRACE_PATH_ERR : Event Trace Dump PATH [chars] not accesible. Verify credentials, directory path and network connectivity. Correct the Error and reconfigure Dump-file

Explanation	Event Trace Dump-file Location not accessible
Recommended Action	Correct the accesibility Error and reconfigure

%SIP-2-SILENT_DISCARD : Silent Discard [chars]

Explanation	Request received from Untrusted Host.
Recommended Action	Block the request from untrusted host at network layer

%SIP-5-BIND_LINE_STATUS : bind line proto status

Explanation	Informational message on bind line proto
Recommended Action	No action is required.

%SIP-4-WEAK_PASSWORD_TYPE : Command has been added to the configuration using a type [int] password. However, type [int] passwords will soon be deprecated. Migrate to a supported password type [int]

Explanation	Password encryption type deprecated. New password type to be 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.

%SIP-3-PASSWORD_REKEY_FAILED : Failed to encrypt type 6 password after master key change. Password [chars] will become unusable

Explanation	Type 6 password encryption failed after master key change
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-2-TLS_HANDSHAKE_FAILED : TLS handshake failure - remote_addr=[chars], remote_port=[int]

Explanation	TLS handshake 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.

SIPPHONE

%SIPPHONE-6-REGISTER : VOICE REGISTER POOL-[dec] has registered. Name:[chars] IP:[chars] DeviceType:Phone-[chars]

Explanation	SIP phone is registered.
Recommended Action	No action is required.

%SIPPHONE-6-UNREGISTER : VOICE REGISTER POOL-[dec] has unregistered. Name:[chars] IP:[chars] DeviceType:Phone-[chars]

Explanation	SIP phone is unregistered.
Recommended Action	No action is required.

%SIPPHONE-6-AUTOREGISTER80 : AUTO-REGISTER: 80%% of DN range is consumed

Explanation	80%% of capacity is consumed.
Recommended Action	No action is required.

%SIPPHONE-6-AUTOREGISTER100 : AUTO-REGISTER: 100%% of DN range is consumed

Explanation	100%% of capacity is consumed.
Recommended Action	No action is required.

SIPSPA

%SIPSPA-3-HWIDB_FAILURE : Creation: port [dec] vc [dec]

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

%SIPSPA-3-DEVICE_ERROR : subSlot [dec], spatype [hex]. Device error: [chars]

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

%SIPSPA-3-ISR_RC_ERROR : ISR return code out of range. rc=[dec]

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

%SIPSPA-4-SPABUS : Bay [dec] [chars] failed. sz=[int] rd_par=[int] noresp=[int] err_l=[int] addr=[hex] data=[hex] parity=[hex] deadman=[int]

Explanation	SPABUS has reported 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.

%SIPSPA-4-SPABUS2 : Bay [dec] [chars] failed. sz=[int] rd_par=[int] noresp=[int] absent=[int] err_l=[int] addr=[hex] data=[hex] parity=[hex] deadman=[int]

Explanation	SPABUS has reported 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.

%SIPSPA-6-OIR : Bay [dec] [chars] changed to [chars]

Explanation	SPA OIR Sequence
Recommended Action	No action is required.

%SIPSPA-4-MAX_BANDWIDTH : Total SPA bandwidth exceeds line card capacity of [int] Mbps

Explanation	The total bandwidth of SPAs exceeds the rated capacity of this line card.
Recommended Action	Refer to the line card guidelines for the maximum allowed aggregated SPA bandwidth for the line card

%SIPSPA-4-MAX_BANDWIDTH_NS : Total SPA bandwidth exceeds line card capacity, installed combination of SPA interfaces is not supported

Explanation	The total bandwidth of SPAs exceeds the rated capacity of this line card.
Recommended Action	Refer to the line card guidelines for the maximum allowed aggregated SPA bandwidth for the line card

%SIPSPA-4-SPI_PORT_LIMIT_EXCEEDED : SPI port limit exceeded, [chars] in [chars] has been powered down.

Explanation	The total number of SPI ports required exceeds the capacity of this line card.
Recommended Action	Refer to the line card guidelines for SPA combinations supported by this line card

%SIPSPA-3-POWER : Bay [dec] 12V power is [chars]

Explanation	SPA 12V power fault indicator
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIPSPA-3-SPI4_INIT_FAILURE : Bay [dec] initialization failure

Explanation	Failed to create SPI4 subblock
Recommended Action	Seach for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, LOG_STD_ACTION

%SIPSPA-3-MESSAGE_ERROR : Bay [dec]: [chars]

Explanation	An unexpected error has occurred.
Recommended Action	Seach for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, LOG_STD_ACTION

%SIPSPA-3-SPI4_CONFIG_FAILURE : Bay [dec], spi4 configuration failure, error [dec]

Explanation	Failed to configure SPI4 interface
Recommended Action	Seach for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, LOG_STD_ACTION

%SIPSPA-3-FCI_NOT_SET : Bay [dec]: [chars]: FCI type not set

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

%SIPSPA-3-EFC_CHAN_ERR : EFC error - interface [chars], vc [dec], anyphy [dec], err_code [dec] : [chars]

Explanation	Failed to configure efc channel/parameters
Recommended Action	Seach for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, LOG_STD_ACTION

%SIPSPA-3-INVALID_ANYPHY : Bay [dec] - Invalid anyphy number [int] for vc [dec]

Explanation	Interface has invalid anyphy mumber
Recommended Action	Seach for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a 'show tech-support' to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SIPSPA-3-LINKREC_ERROR : Link record error - Bay [dec] vc [dec], error code [dec]

Explanation	Error processing link record structure
Recommended Action	Seach for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a 'show tech-support' to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SIPSPA-3-SONET_CLOCK_FAILED : SPA Sonet clock has failed (status = [hex])

Explanation	The SPA SONET clock has failed. SPAs that rely on the SPA SONET clock for proper operation, such as POS and ATM will be affected.
Recommended Action	If the SPA Sonet clock does not recover, perform an OIR. LOG_STD_RECUR_ACTION

%SIPSPA-6-ERRORRECOVER : A Hardware or Software error occurred on [chars]. Reason : [chars] Automatic Error recovery initiated. No further intervention required.

Explanation	An error occurred in one of the devices, recovery would be attempted. If recovery succeeds no further messages would be logged and no intervention would be required.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIPSPA-3-SONET_CLOCK_RECOVERED : SPA Sonet clock has recovered (status = [hex])

Explanation	SPA Sonet clock has recovered
Recommended Action	No action is required.

%SIPSPA-3-BADCMD : [chars]: Unsupported command [dec], arg0=[hex], arg1=[hex], arg2=[hex]

Explanation	The Route Processor passed down a command that the software was not prepared to handle.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SIPSPA-3-IPCALLOCFAIL : Failed to allocate IPC buffer [chars]

Explanation	The Linecard failed to allocate a buffer for communication with the Route Processor.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SIPSPA-3-IPCSENDFAIL : Failed to send IPC message [chars]

Explanation	The Linecard failed to send a message to the Route Processor.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SIPSPA-3-BAD_IFCOMTYPE : Bad ifcom message type=[int]

Explanation	The Route Processor passed down a message that the software was not prepared to handle.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SIPSPA-3-MSGTOOBIG : Message length exceeds max, [int] bytes

Explanation	The Linecard attempted to send too large a message to the Route Processor.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SIPSPA-3-CMDNOINT : HWIDB Null for command [dec], arg=[hex]

Explanation	The Route Processor passed down a command that the software was unprepared to handle.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SIPSPA-3-NODISPATCH : Dispatch vector Null, cmd=[dec], dintf=[dec]

Explanation	No command dispatch vector was found for the specified interface.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SIPSPA-3-BADINT : Attempted to access HWIDB for port [int]

Explanation	The Linecard attempted to access the HWIDB associated with a non-existent port.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

SIP_SUPPSERV

%SIP_SUPPSERV-6-TRANSFER : Transfer from pool([dec]) to [chars] is not allowed

Explanation	Transfer from the SIP Phone to this specific destination is not allowed
Recommended Action	No action is required.

%SIP_SUPPSERV-6-TRANSFER_BLOCKED : All external transfers from pool([dec]) are blocked

Explanation	Transfer from the SIP Phone to any external destination is not allowed
Recommended Action	No action is required.

%SIP_SUPPSERV-6-TRANSFER_LEN_EXCD : Transfer number exceeds configured number length. Transfer blocked for pool ([dec])

Explanation	Transfer from the SIP Phone is blocked as the transfer digits entered exceeds the dialplan limit for transfers
Recommended Action	No action is required.

%SIP_SUPPSERV-6-CONFERENCE : Conference from pool ([dec]) to [chars] is not allowed

Explanation	Conference from the SIP Phone to this specific destination is not allowed
Recommended Action	No action is required.

%SIP_SUPPSERV-6-CONFERENCE_BLOCKED : All external conferences from pool([dec]) are blocked

Explanation	Conference from the SIP Phone to any external destination is not allowed
Recommended Action	No action is required.

%SIP_SUPPSERV-6-CONFERENCE_LEN_EXCD : Conference number exceeds configured number length. Conference blocked for pool ([dec])

Explanation	Conference from the SIP Phone is blocked as the conference digits entered exceeds the dialplan limit for conferences
Recommended Action	No action is required.

SISF through SMAN

- SISF
- SISF_ISSU
- SISF_TRACKING_HA
- SKINNYMAIN
- SKINNYSECURESERVICE
- SKINNYSERVER
- SLA
- SLIP
- SM
- SMAN

SISF

%SISF-3-INTERNAL : Internal 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/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SISF-6-ENTRY_CREATED : Entry created [chars]

Explanation	An entry was created in the binding table
Recommended Action	This is an informationnal message

%SISF-6-ENTRY_DELETED : Entry deleted [chars]

Explanation	An entry was created in the binding table
Recommended Action	This is an informationnal message

%SISF-6-ENTRY_CHANGED : Entry changed [chars]

Explanation	An entry was changed in the binding table
Recommended Action	This is an informationnal message

%SISF-6-ENTRY_MAX_ORANGE : Reaching 80%% of max adr allowed per [chars]

Explanation	Reached 80% of maximum # addresses for the target
Recommended Action	A client is approaching red zone and might soon be blocked. The maximum value configured may be too low and you should consider increasing it. Or some of this client addresses are stale and you could clear them

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%SISF-4-ENTRY_BLOCKED : Entry blocked [chars]

Explanation	An attempt to install an entry in the IPv6 binding table was blocked. This can be due to a conflicting entry or maximum number of entries reached
Recommended Action	If the maximum table size is reached, consider increasing it. If a conflicting entry already exist, this maybe an attempt to steal address ownership. You should investigate which host is connected on the interface and wether it should be disconnected

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%SISF-4-IP_THEFT : IP Theft [chars]

Explanation	A duplicate IP address has been detected (IP theft) and blocked This can be due to a configuration error on end-device, an intentional IP theft or an IP movind too quickly
Recommended Action	If the existing entry is REACHABLE in the binding table, and it moved to a new port consider reducing the REACHABLE timer otherwise it is either an attack or a configuration issue that must be resolved

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%SISF-4-MAC_THEFT : MAC Theft [chars]

Explanation	A duplicate MAC address has been detected (MAC theft) and blocked This can be due to a configuration error on end-device, an intentional MAC theft or MAC moving too quickly

%SISF-4-MAC_THEFT : MAC Theft [chars]

Recommended Action	If the existing entry is REACHABLE in the binding table, and it moved to a new port consider reducing the REACHABLE timer otherwise it is either an attack or a configuration issue that must be resolved

%SISF-4-MAC_AND_IP_THEFT : MAC_AND_IP Theft [chars]

Explanation	A duplicate MAC and IP address has been detected (MAC_AND_IP theft) and blocked This can be due to a configuration error on end-device, an intentional MAC_AND_IP theft or MAC moving too quickly
Recommended Action	If the existing entry is REACHABLE in the binding table, and it moved to a new port consider reducing the REACHABLE timer otherwise it is either an attack or a configuration issue that must be resolved

%SISF-4-PAK_DROP : Message dropped [chars]

Explanation	A message was dropped because one of the IPv6 first-hop security features said so
Recommended Action	Look at the reason. It can either be a valid drop and the could go up to disconnect the host attached to the interface, or the policy configured on this interface is too severed and should be amended

%SISF-4-DATA_GLEAN_NOTIF_RECEIVED : No binding for [chars]

Explanation	A data packet notification has been received because a snooping policy with the data glean option is configured and the Source address of the packet is not currently in the Binding Table.
Recommended Action	There are valid scenarios where the binding could not be learned (e.g. control packet was lost) or the binding is lost (e.g. switch reboot). Conversely, it could also be the case that an unauthorized Source Address is trying to generate traffic, in which case this should be investigated further to determine if the host on this particular interface needs to be disconnected.

%SISF-4-RESOLUTION_VETO : Resolution vetoed [chars]

Explanation	IPv6 Neighbor Discovery (ND) was about to resolve a target destination. SISF Destguard has vetoed this because the target is known not to be on-link.
Recommended Action	A low rate of vetoed resolutions is not serious. If there is a high rate of vetos this might suggest that the link is under attack. Investigate the source of the packets driving these resolution requests

SISF_ISSU

%SISF_ISSU-2-INIT : Sisf ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation	The Sisf 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.

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

Explanation	The Sisf 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 Sisf 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>)

%SISF_ISSU-3-MSG_NOT_OK : Sisf ISSU client 'Message Type [dec]' is not compatible

Explanation	The Sisf 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>)

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

Explanation	The Sisf ISSU client failed to calculate the MTU for the specified message. The Sisf 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>)

%SISF_ISSU-3-INVALID_SESSION : Sisf ISSU client does not have a valid registered session.

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

%SISF_ISSU-3-INVALID_SESSION : Sisf 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>)

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

Explanation	The Sisf 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>)

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

Explanation	The Sisf 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>)

%SISF_ISSU-2-SESSION_NEGO : Sisf ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation	An ISSU-compliant client transitions through a series of internal states. The Sisf 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>)

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

Explanation	The Sisf 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)

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

Explanation	The Sisf 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)

%SISF_ISSU-3-CAP_NOT_COMPATIBLE : Sisf ISSU client capability exchange result incompatible.

Explanation	The Sisf ISSU client capability exchange have negotiated as incompatible with the peer.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu negotiated capability <Session_ID>)

%SISF_ISSU-3-CAP_INVALID_SIZE : SISF ISSU client capability list is empty.

Explanation	The SISF ISSU client capability exchange list size is invalid.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entires <Client_ID>)

SISF_TRACKING_HA

%SISF_TRACKING_HA-4-ENTRY_OUT_OF_SYNC : Host mac-address [enet] ip-address [IP_address] interface [chars]

Explanation	An inconsistency has been detected in the IP device tracking table for this host between active and standby
Recommended Action	No action is required.

SKINNYMAIN

%SKINNYMAIN-4-KEYPADFAST : Keypad messages from the phone [dec] are too fast

Explanation	The inter digit interval is too short. Each digit may not be processed properly
Recommended Action	Please configure keypad-normalize for the phone

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%SKINNYMAIN-4-KEYPADFAST : Keypad messages from the phone [dec] are too fast

Explanation	The inter digit interval is too short. Each digit may not be processed properly

%SKINNYMAIN-4-KEYPADFAST : Keypad messages from the phone [dec] are too fast

Recommended Action	Please configure keypad-normalize for the phone

SKINNYSECURESERVICE

%SKINNYSECURESERVICE-3-NOINIT : Can't initialize Secure Skinny server

Explanation	Internal problems with initializing ports for the Secure Skinny server
Recommended Action	Make sure the Skinny secure server port is available on the local machine.

%SKINNYSECURESERVICE-3-NOMEM : Can't initialize memory for Secure Skinny server

Explanation	Insufficient Memory for Secure Skinny server
Recommended Action	Increase amount of available memory

%SKINNYSECURESERVICE-3-NOSOCKETS : Max Number of Skinny Secure Server sockets exceeded: too many IP phones

Explanation	There are too many skinny Secure server clients requesting service
Recommended Action	Reduce number of Secure IP phones requesting service

%SKINNYSECURESERVICE-3-NOPROC : Could not start Skinny Secure Server

Explanation	Internal Problem in process creation
Recommended Action	None

%SKINNYSECURESERVICE-6-TLS_EVAL_LIMIT : The TLS signaling tunnels usage exceeds the license limit.

Explanation	The TLS signal tunnels usage exceeds the license limit.
Recommended Action	Please install the Permanent license

%SKINNYSECURESERVICE-6-TLS_EVAL_FREE_ERROR : Error encountered on release TLS signaling tunnels.

Explanation	Error encountered on release TLS signaling tunnels.
Recommended Action	Please install the Permanent license

SKINNYSERVER

%SKINNYSERVER-3-NOINIT : Can't initialize Skinny server

Explanation	Internal problems with initializing ports for the Skinny server
Recommended Action	Make sure the Skinny server port is available on the local machine.

%SKINNYSERVER-3-NOMEM : Can't initialize memory for Skinny server

Explanation	Insufficient Memory for Skinny server
Recommended Action	Increase amount of available memory

%SKINNYSERVER-3-NOSOCKETS : Max Number of Skinny Server sockets exceeded: too many IP phones

Explanation	There are too many skinny server clients requesting service
Recommended Action	Reduce number of IP phones requesting service

SLA

%SLA-3-SLATHRESHOLD : IP SLAs([int]): Threshold for [chars]; [chars]; [dec]

Explanation	This informational message logs threshold violations in the Service Assurance Agent probes. This messages appears when the **ip sla logging trap** command is entered
Recommended Action	If this message is not necessary, enter the **no ip sla logging trap** command to disable logging. Otherwise, no action is required

%SLA-3-SLAAVAILABILITY : IP SLAs([int]): State change for [chars];[chars];FLR - [dec]

Explanation	This informational message logs availability transitions in the Service Assurance Agent probes. This messages appears when the **ip sla logging trap** command is entered

%SLA-3-SLAAVAILABILITY : IP SLAs([int]): State change for [chars];[chars];FLR - [dec]

Recommended Action	If this message is not necessary, enter the **no ip sla logging trap** command to disable logging. Otherwise, no action is required

SLIP

%SLIP-2-BADSTATE : Impossible input state [hex]

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

%SLIP-2-BADQUOTE : Impossible quoted character [hex]

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

SM

%SM-2-INITIALIZATION_FAILED :

Explanation	Initialization of session manager process failed.
Recommended Action	Review SM logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log.

SMAN

%SMAN-3-PTL_RENDERER_FAILURE : Rendering error with [chars].[chars]. Transform is missing or invalid for data.

Explanation	The Shell Manager process attempted to render a command response but the transformation failed due to an internal error. The failure may have been caused by a missing transform file or an included file cannot be found. The transformation may also fail if the data returned in the response is binary and has not been processed correctly. In this case, the rendering engine is unable to interpret the data resulting in a failure. The transformation may also fail if there is a mismatch of packages installed on the system. In this case, incompatible messages are exchanged between the Shell Manager and the daemon servicing the command request and incorrect data is passed to the rendering engine.
Recommended Action	This error indicates a configuration issue resulting from bad or mismatched packages. Review the Shell Manager trace files and log files. Uninstall, then reinstall, any new packages.

%SMAN-2-TDL_MESSAGE : Cannot construct an IPC message for library. The message name is [chars] and the reason is: [chars]

Explanation	A problem occurred while constructing a type definition language (TDL) message or setting a field in a TDL message. If the problem occurred during construction of a TDL message, the system is out of memory. If the problem occurred while setting a field in the TDL message, there is a library mismatch issue.
Recommended Action	Check [uipeer] ERR entries in the log files for message reporting problems.

%SMAN-2-NO_MEMORY : Cannot allocate memory for an internal data structure

Explanation	An out-of-memory condition occurred when attempting to create an internal data structure. The daemon encountering the problem will exit, after which the process manager will restart.
Recommended Action	Check the log files for the associated daemon. Monitor processes for excessive memory consumption.

%SMAN-3-INVALID_EPOCH_FILE : An upgrade or installation has produced an invalid messaging configuration file [chars], [chars]

Explanation	During an upgrade or installation of a new package, an invalid messaging configuration file was produced. The file is either empty or has invalid permissions and cannot be read.
Recommended Action	Repeat the installation or upgrade. If the problem persists, revert to a previous known good package.

%SMAN-3-HOSTINFO_READ_FAILURE : Error reading host info ([chars]): [chars]

Explanation	During process startup and when changes occur, the Shell Manager reads host-related information, such as the hostname. This error occurs if there is a failure reading information.
Recommended Action	Check the Shell Manager trace file for related details.

%SMAN-3-HOSTINFO_MONITOR_FAILURE : Error initializing host info monitoring: [chars]

Explanation	During initialization, the Shell Manager monitors changes to host-related information, such as the hostname. This error occurs if initialization fails.
Recommended Action	Check the Shell Manager trace file for related details.

%SMAN-3-NO_CDL_FILE : Could not access command definition file [chars]: [chars]

Explanation	During initialization, the Shell Manager loads a XML CDL file to load all the CLI structure. This file is for some reason not found.
Recommended Action	Check the Shell Manager trace file for related details.

%SMAN-3-CRDU_PATCH_REPLY_TIMEOUT : Failed to receive patch response from peer process [chars]

Explanation	During patch operation the Shell Manager broadcasts a request to all affected processes (peers). If a peer does not respond in time then the patch process cannot be completed correctly
Recommended Action	Check that the process(es) that failed to respond are still active and check their trace files for any potential errors that could prevent them from responding to a patch request in a timely manner

SMANRP through SONETMIB

- SNMP_MIB_ISSU

- SONET

- SONETIFMIB

- SONETMIB

SMANRP

%SMANRP-3-MSGDISPATCHNULL : Received NULL TDL message

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

%SMANRP-3-MSGDISPATCH : Unable to dispatch received TDL message '[chars]' from Shell Manager. LUID: [chars]

Explanation	An unexpected condition has occurred while IOS is trying to dispatch to the TDL message handler functions for received TDL messages from Shell Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

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

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

%SMANRP-3-MSGINVALIDFIELDINT : Invalid field '[chars]' in TDL message '[chars]' received: value '[int]' from the Shell Manager

Explanation	A message with an invalid field value was received from the Shell Manager

%SMANRP-3-MSGINVALIDFIELDINT : Invalid field '[chars]' in TDL message '[chars]' received: value '[int]' from the Shell 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.

%SMANRP-3-MSGINVALIDFIELDSTR : Invalid field '[chars]' value '[chars]' in TDL message '[chars]' received from the Shell Manager

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

%SMANRP-3-MSGERROR : Error [dec] handling a received TDL message '[chars]' from the Shell Manager: [chars]

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

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

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

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

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

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

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

%SMANRP-3-BADREPLYJOBID : Incorrect command reply job id [int] (origin [chars]), expecting [int]

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

%SMANRP-3-CMDTOOLONG : Interactive command too long

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

%SMANRP-3-CMDBUILD : Interactive command directive [dec] of [dec] failed

Explanation	In processing a CLI command, one of the instructions returned through the Shell Manager could not be turned into an interactive command for remote execution.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-CMDCONNECT : Connection to local interactive relay failed: [chars]

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

%SMANRP-3-CMDSEND : Send interactive command to relay failed: [chars]

Explanation	Sending the interactive command string to the local relay after the connection was established failed by the reason indicated in the error message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-MSGBIPCCONNERR : Unable to register with the BIPC subsystem for connections to Shell Manager

Explanation	IOS Shell Manager client code could not register with the BIPC communications infrastructure in order to establish a connection with the Shell Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-MSGBIPCERR : Unable to process received BIPC messages from Shell Manager, error: [chars]

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

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

Explanation	A message was to be sent by IOS, but no BIPC buffer was available. The message to be sent has been discarded and the associated operation failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-INVALIDCONNHANDLE : Invalid connection handle [int] referenced during command execution.

Explanation	The execution of a CLI command, which must communicate with Shell Manager for command execution, has referenced a connection handle that is invalid. The CLI command execution will have failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-SMAN_INIT_WQ_FAIL : Shell Manager client connection handler initialization failed: Unable to create [int] of [int] receiving queues.

Explanation	The Shell Manager client has failed to create all of its receiving queues. Ability to execute some CLI commands will be severely restricted or non-existent.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-SMAN_INIT_CONN_FAIL : Shell Manager client connection pool initialization failed: Unable to request creation of [int] of [int] connections.

Explanation	The Shell Manager client has failed to create all of its connections to Shell Manager. Ability to execute some CLI commands will be severely restricted or non-existent.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-SMAN_HANDLER_QUEUE_NOTEMPTY : Dynamic command handler exited foreground process with non-empty queue

Explanation	The dynamic command handler which dispatches commands to the shell manager, has exited without proper cleanup.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-SMAN_INIT_DC_TDL_FAIL : Shell Manager client initialization failed: Unable to initialize messaging: [chars]

Explanation	The Shell Manager client has failed to initialize the infrastructure for messaging with the Shell Manager. Ability to execute some CLI commands will be severely restricted or non-existent.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

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

Explanation	This error happens when the Shell Manager shim failed to set the access control function for the LIIN, possibly due to IOS out of memory or corruption. Interactive commands will not work.
Recommended Action	LOG_STD_ACTION

%SMANRP-6-SMSTATUS : Shell Manager is [chars]

Explanation	The current status of Shell Manager.
Recommended Action	No action is required.

SMF

%SMF-4-INVALID_ACTION : failed to create SMF entry for [enet] on [chars] with result [hex]

Explanation	An internal software error occurred.
Recommended Action	LOG_STD_ACTION

SMRP

%SMRP-6-PORTUP : [chars]: SMRP port up - [chars]

Explanation	An SMRP port has come up.
Recommended Action	Notification message only. No action required.

%SMRP-5-PORTDOWN : [chars]: SMRP port down - [chars]

Explanation	An SMRP port is down and is no longer operational.
Recommended Action	Notification message only. No action required.

%SMRP-6-NEIGHBORUP : [chars]: SMRP neighbor up - [chars]

Explanation	A neighboring SMRP router has appeared.
Recommended Action	Notification message only. No action required.

%SMRP-5-NEIGHBORDOWN : [chars]: SMRP neighbor down - [chars]

Explanation	A neighboring SMRP router is now down.
Recommended Action	Notification message only. No action required.

%SMRP-3-NOFDDICOMPAT : SMRP port [chars] disabled; pre-fdditalk not supported

Explanation	SMRP cannot be started on an interface that is running pre-FDDITalk.
Recommended Action	Use FDDITalk on the FDDI ring if possible.

%SMRP-2-ASSERTFAILED : SMRP assertion failed: [chars]

Explanation	The software detected an inconsistency. This is considered a serious error. The router attempts to continue, but SMRP processing may be impaired.
Recommended Action	Copy the error message exactly as it appears, noting any SMRP problems that you are experiencing, and report it to your technical support representative.

%SMRP-7-DEBUGMSG : SMRP Debug: [chars]

Explanation	This message is generated by some debug commands to provide additional information about conditions in SMRP.
Recommended Action	If you are experiencing problems in SMRP, these messages should be provided, along with any other information, in a report to your technical support representative.

SNAPSHOT

%SNAPSHOT-2-BADSTATE : Bad state for Snapshot block [chars][[dec]], location [dec]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNAPSHOT-2-TOOMANYDIALERS : Exceeded maximum dialer interfaces to watch. Ignoring [chars]

Explanation	Snapshot is being used over more than 100 DDR interfaces.
Recommended Action	Do not use snapshot over more than 100 DDR interfaces.

SNMP

%SNMP-3-TRAPINTR : Attempt to generate SNMP trap from interrupt level

Explanation	During the processing of an interrupt, the code attempted to generate an SNMP trap. This is not allowed.

%SNMP-3-TRAPINTR : Attempt to generate SNMP trap from interrupt level

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

%SNMP-3-TRAPBLOCK : Attempt to generate SNMP trap from a process with blocking disabled

Explanation	During processing, a process with blocking disabled attempted to generate an SNMP trap which would block. This is not allowed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-4-TRAPDROP : [chars]

Explanation	An attempt was made to generate an SNMP trap, but the trap could not be sent because of the reason given in this message. Most likely, this message means that the SNMP traps process is not running.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative. Use the **show process** command to determine whether the SNMP traps process is running. If it is not running, reload the system. If, after reloading, the SNMP traps process is still not running, there may not be enough memory for it to run.

%SNMP-3-BADVALUE : Maximum number of index supported is 20

Explanation	An SNMP trap contains some number of MIB objects, and the size of the instance identifier for these objects is restricted. This message indicates that an attempt was made to generate an SNMP trap containing a MIB object whose size exceeded this limit.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-3-BADOID : Attempt to generate an invalid object identifier

Explanation	A valid object identifier must contain at least two subidentifiers. An attempt was made to generate an object identifier whose size was less than two.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-3-CPUHOG : Processing [chars] of [chars]

Explanation	SNMP took too much time processing a request.

%SNMP-3-CPUHOG : Processing [chars] of [chars]

Recommended Action	If feasible, use the **debug snmp packet** command to determine the contents of the SNMP request that is causing the message. Copy the error message exactly as it appears, and report it along with any debug output to your technical support representative.

%SNMP-4-HIGHCPU : Process exceeds [dec]ms threshold ([dec]ms IOS quantum) for [chars] of [chars]--result [chars]

Explanation	SNMP took more than the warning threshold processing a var-binding.
Recommended Action	If feasible, use the **debug snmp packet** command to determine the contents of the SNMP request that is causing the message. Copy the error message exactly as it appears, and report it along with any debug output to your technical support representative. Some MIB objects require a relatively large amount of time to process. MIB objects in the multi-variable-binding are processed one by one. If possible, MIB objects appearing in this message should NOT be retrieved using multi-variable-binding SNMP PDUs.

%SNMP-3-SYNCFAIL : SNMP MIB Sync Failure: [chars]

Explanation	One of the SNMP MIB Sync to standby failed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-3-DYNSYNCFAIL : Snmp Dynamic Sync Failed for [chars] = [chars]

Explanation	One of the SNMP MIB Dynamic Sync(sync of Snmp SET) to standby failed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-4-NOFLASH : Reading snmpEngineBoots from flash failed

Explanation	An attempt to read the snmpEngineBoots file from flash failed. Most likely, this means that the flash card does not exist on the router. This message should appear only when the router is reloaded.
Recommended Action	Check if installing a flash card makes the message go away. If a flash card exists already, it may be full. Try erasing flash and reloading the router. If after these steps, the problem persists, copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-4-NOENGINEID : Remote snmpEngineID for [IP_address] not found when creating user: [chars]

Explanation	An attempt to create a user failed.This is likely because the engine ID of the remote agent (or SNMP manager) was not configured.
Recommended Action	Configure the remote snmpEngineID and reconfigure the user. If the problem persists, copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-4-NOENGINEIDV6 : Remote snmpEngineID for [IPV6 address] not found when creating user: [chars]

Explanation	An attempt to create a user failed.This is likely because the engine ID of the remote agent (or SNMP manager) was not configured.
Recommended Action	Configure the remote snmpEngineID and reconfigure the user. If the problem persists, copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-5-COLDSTART : SNMP agent on host [chars] is undergoing a cold start

Explanation	The snmp server underwent a coldstart.
Recommended Action	Notification message only. No action required.

%SNMP-5-WARMSTART : SNMP agent on host [chars] is undergoing a warm start

Explanation	The snmp server underwent a warmstart.
Recommended Action	Notification message only. No action required.

%SNMP-3-AUTHFAIL : Authentication failure for SNMP req from host [IP_address]

Explanation	An SNMP request was sent to this host which was not properly authenticated.
Recommended Action	Make sure that the community/user name used in the SNMP req has been configured on the router.

%SNMP-5-LINK_DOWN : LinkDown:Interface [chars] changed state to down

Explanation	The state of the Interface is changed to down.
Recommended Action	

%SNMP-5-LINK_UP : LinkUp:Interface [chars] changed state to up

Explanation	The state of the Interface is changed to up.
Recommended Action	

%SNMP-6-VIEWNAMELENGTH : Invalid view name length; truncated.

Explanation	SNMP agent generated view length greater than that allowed by definition so the view name was truncated to fit the defined maximum view name length.
Recommended Action	Make sure your trap group and view names are setup appropriately. You can override with 'snmp-server group' command. Notify Cisco that this needs to be fixed.

%SNMP-3-AUTHFAILIPV6 : Authentication failure for SNMP request from host [IPV6 address]

Explanation	An SNMP request was sent by this host which was not properly authenticated.
Recommended Action	Make sure that the community/user name used in the SNMP req has been configured on the router.

%SNMP-5-MODULETRAP : Module [dec] [[chars]] Trap

Explanation	This message shows the SNMP agent sends out the Module Up/Down Traps to the engine ID of the remote agent (or SNMP manager) because the corresponding module is up/down.
Recommended Action	

%SNMP-5-CHASSISALARM : Chassis Alarm Trap: tmpAlarm([chars]), minorAlarm([chars]), and/or majorAlarm([chars])

Explanation	This message shows the SNMP agent sends out the Chassis Alarm On/Off Traps to the engine ID of the remote agent (or SNMP manager) because the corresponding chassis alarm is on/off.
Recommended Action	

%SNMP-3-BADIFINDEXTABLE : The file nvram:ifIndex-table is corrupt.

Explanation	The file is not in the expected format.
Recommended Action	If possible, please delete the file.

%SNMP-3-IFINDEXTABLEFILEINTWOFORMATS : ifIndex-table is present in two formats.

Explanation	Both nvram:ifIndex-table and nvram:ifIndex-table.gz are present.
Recommended Action	No action is necessary.

%SNMP-3-IFINDEXTABLE_DECOMPRESSFAILED : The file nvram:ifIndex-table.gz could not be decompressed.

Explanation	There is either insufficient memory to compress it or the nvram space is insufficient or some other reason.
Recommended Action	If possible, please delete the file.

%SNMP-3-TOOMANYIFINDICES : Some ifindices might not be persisted.

Explanation	There are too many ifindices and the system is unable to persist all of them.
Recommended Action	Most likely, this is a system limitation and there is no workaround.

%SNMP-3-FILEOPENFAILED : Could not open [chars].

Explanation	The ifIndex-table is not accesible, and hence the facility for ifindex persistence may not be available.
Recommended Action	Please debug using the debug ifs file command.

%SNMP-3-FILESTATFAILED : Could not get information for file [chars].

Explanation	The ifIndex-table is not accesible, and hence the facility for ifindex persistence may not be available.
Recommended Action	Please debug using the debug ifs file command.

%SNMP-3-INCORRECT_SIZE_FOR_NVRAM : Size should be > 0, but it is [dec].

Explanation	There is some initialization problem in software.
Recommended Action	Ideally, you should never see this message. If you do, please report it at the earliest convenience.

%SNMP-4-IFINDEXPERS_INTERNAL_ERROR : An internal error occurred in ifindex persistence code.

Explanation	There is an unexpected internal error in ifindex persistence software.
Recommended Action	

%SNMP-3-ISSU_ERR : [chars]

Explanation	Error happens when doing ISSU Versioning Operation
Recommended Action	Report this message to technical support

%SNMP-3-DUPLICATE_IFINDEX : [chars] has [dec] duplicate ifIndices.

Explanation	ifIndex-table file is corrupt. Ignoring duplicate entries.
Recommended Action	If ifIndex-table is not needed, please delete the file from nvram.

%SNMP-3-NON_POSITIVE_IFINDEX : [chars] has [dec] non-positive ifIndices.

Explanation	ifIndex-table file has some invalid entries that have non-positive ifIndex values. Ignoring invalid entries.
Recommended Action	If ifIndex-table is not needed, please delete the file from nvram.

%SNMP-3-INPUT_QFULL_ERR : Packet dropped due to input queue full

Explanation	Snmp packet dropped due to input queue full error
Recommended Action	The condition is usually caused by a large delay collecting data for a specific OID, which will backup the SNMP queue with subsequent requests. You may see an accompanying SNMP-CPUHOG message that displays which OID is taking too long. If the SNMP-CPUHOG error consistently points to the same OID, then the user should search for a matching Cisco CDETS ID which improves performance of that OID. Blocking the OID with an snmp view is an optional workaround, but that will impact the ability for management software to get data from the device. In a small percentage of cases, the root cause is overall CPU utilization, which affects all processes, including SNMP. So, reducing CPU load (especially on the control plane CPU) is recommended. This is more likely the root cause if the SNMP-CPUHOG errors point to a variety of OIDs.

%SNMP-3-INTERRUPT_CALL_ERR : [chars] function, cannot be called from interrupt handler

Explanation	This message indicates that a call has been made to the function from an interrupt handler. This is not permitted because it will fail and device will reboot down the stack in malloc call.
Recommended Action	If this messages recurs, copy it exactly as it appears and report it to your technical support representative.

%SNMP-3-DVR_DUP_REGN_ERR : Attempt for dupe regn with SNMP IM by driver having ifIndex [dec] and ifDescr [chars]

Explanation	Driver is attempting to register an idb with the interface manager while there is already an interface with the same ifIndex and ifDescr BUT different idb registered. This would lead into the problem that interface counters shown by snmp would not work properly for this particular interface.
Recommended Action	Fix the duplicate registration in driver level.

%SNMP-3-DVR_DUP_REGN_WARNING : Attempt for dupe regn with SNMP IM by driver having ifIndex [dec] and ifDescr [chars]

Explanation	Driver is attempting to register the same idb with the interface manager while it's already registered. This is just a warning message and handled by snmp.
Recommended Action	Fix the duplicate registration in driver level.

%SNMP-3-MAX_TRAPS_EXCEED_ERR : Maximum number of traps exceeded the maximum allowed in the current sync-message to STANDBY

Explanation	This message indicates the number of SNMP traps defined exceeded the maximum we can accomodate in a checkpoint sync-message. You, the developer need to increase SNMP_SYNC_BITMASK_MAX to a higher value. Please check smci_rf_status_event() for further details.
Recommended Action	Developers will never see this error message.

%SNMP-5-MODULERESET : [chars] object has been set to 'reset' for [chars]=[dec] from IP address [chars].

Explanation	The SNMP server has reset a module.
Recommended Action	Notification message only. No action required.

%SNMP-3-RESPONSE_DELAYED : processing [chars] of [chars] ([dec] msecs)

Explanation	SNMP OID that is not responding within the threshold time specified
Recommended Action	Get the OID causing the error and block using snmp views Contact mib owners to solve the issue further

SNMP_MGR

%SNMP_MGR-4-NOTENABLED : SNMP Manager not enabled (requested by [chars])

Explanation	An IOS application is attempting to make use of the SNMP manager's services. However the SNMP manager functionality has not been enabled.
Recommended Action	If you wish to enable the SNMP manager services you may do so via the 'snmp-server manager' config command. Otherwise the IOS application that is requesting these services is given in the message. Disable or reconfigure this application such that it no longer tries to make SNMP manager requests.

%SNMP_MGR-3-NOPROC : Failed to create SNMP Manager process

Explanation	The SNMP manager process was unable to initialize. This is most likely due to a lack of memory.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative. Use the show memory command to examine the amount of available memory. If free memory is low, you may need to reconfigure and/or reload the system.

%SNMP_MGR-3-RESPDROP : Insufficient memory to handle response to request id [int]

Explanation	An SNMP response PDU was received but there was not enough memory available in order to cache the response and return it to the original requesting IOS application.
Recommended Action	If this was only a transient problem, the original SNMP request will likely be resent, another SNMP response will be returned and delivered to the original requesting IOS application. If this message repeats, then you will need to free up some memory in order for the SNMP manager to function. Use show memory to verify whether available memory is low. You may need to reconfigure and/or reload the system in order to free up some memory. Otherwise you can disable the SNMP manager functionality via the no snmp-server manager command.

%SNMP_MGR-3-BADAGETIMER : Unexpected age timer found on session [hex]

Explanation	An internal timer was found running when it should not have been.

%SNMP_MGR-3-BADAGETIMER : Unexpected age timer found on session [hex]

Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative. Disable the SNMP manager via the no snmp-server manager command. Then re-enable it via the snmp-server manager command. This should effectively reset all of the internal structures.

%SNMP_MGR-3-BADUSECOUNT : Corrupted use counter found on session [hex]

Explanation	A cached SNMP session structure appears to have been corrupted.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative. Disable the SNMP manager via the no snmp-server manager command. Then re-enable it via the snmp-server manager command. This should effectively reset all of the internal structures.

%SNMP_MGR-3-BADPDUTYPE : Received unknown PDU type: [int]

Explanation	The SNMP manager was delivered a PDU of an unknown type.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-3-BADTRANSPORT : Unknown transport type: [int]

Explanation	The SNMP manager was delivered a PDU from an unknown transport type.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-3-SESSIONINUSE : Attempt to destroy session [hex] that is still in use

Explanation	An attempt was made to remove a cached SNMP session structure, however it appears that the session is still in use, and therefore should not be removed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-3-BADOP : Unknown operation code [int]

Explanation	An SNMP PDU delivered to the SNMP manager contains an unknown operation code.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-3-MISSINGHOST : Cannot locate information on SNMP informs host: [IP_address]

Explanation	A table entry for the mentioned SNMP informs destination cannot be found. As a result, inform notifications will not be sent to this destination.
Recommended Action	Run the 'show snmp host' and 'show snmp' commands. Copy the error message and output from the show commands exactly as they appear, and report it to your technical support representative. Deleting and re-adding the informs destination via the 'snmp-server host' configuration command may clear the condition. Otherwise, reloading the system may be necessary.

%SNMP_MGR-3-MISSINGHOSTIPV6 : Cannot locate information on SNMP informs host: [IPV6 address]

Explanation	A table entry for the mentioned SNMP informs destination cannot be found. As a result, inform notifications will not be sent to this destination.
Recommended Action	Run the 'show snmp host' and 'show snmp' commands. Copy the error message and output from the show commands exactly as they appear, and report it to your technical support representative. Deleting and re-adding the informs destination via the 'snmp-server host' configuration command may clear the condition. Otherwise, reloading the system may be necessary.

%SNMP_MGR-3-BADINFORMTRANSPORT : Unknown inform transport type: [chars]

Explanation	This SNMP inform destination uses an unknown transport type. Inform notifications cannot be sent to this destination.
Recommended Action	Copy the error message and the output from 'show techsupport' exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-4-EMPTYQUEUE : Input queue is empty

Explanation	The SNMP Manager process was notified that it needs to process it's input queue. But, when the queue was examined, it was found to be empty.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-4-BADRESPONSESTATUS : Unknown response status code: [int]

Explanation	The SNMP Manager process received an internal response with an unknown status code.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-4-BADAUTHTYPE : Unsupported SNMP authorization type: [int]

Explanation	An unknown SNMP authorization type was found. This may result in the inability of the SNMP manager functionality to correctly send and/or receive SNMP messages to/from a particular SNMP agent.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-4-NOCANCEL : Unable to cancel a previously sent inform request.

Explanation	The number of unacknowledged inform requests in-flight has reached the configured maximum limit. In order to make available resources for sending out a new inform request, one of these older inform requests must be cancelled. The algorithm used to choose the most appropriate inform to cancel has failed to choose any. The new inform that was to be sent will be dropped instead.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

SNMP_MIB_ISSU

%SNMP_MIB_ISSU-2-INIT : SNMP MIB ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation	The SNMP MIB 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.

%SNMP_MIB_ISSU-3-TRANSFORM_FAIL : SNMP MIB ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])

Explanation	The SNMP MIB 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 SNMP MIB 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>)

%SNMP_MIB_ISSU-3-MSG_NOT_OK : SNMP MIB ISSU client 'Message Type [dec]' is not compatible

Explanation	The SNMP MIB 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>)

%SNMP_MIB_ISSU-3-MSG_SIZE : SNMP MIB ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation	The SNMP MIB ISSU client failed to calculate the MTU for the specified message. The SNMP MIB 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>)

%SNMP_MIB_ISSU-3-INVALID_SESSION : SNMP MIB ISSU client does not have a valid registered session.

Explanation	The SNMP MIB 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>)

%SNMP_MIB_ISSU-2-SESSION_REGISTRY : SNMP MIB ISSU client failed to register session information. Error: [dec] ([chars])

Explanation	The SNMP MIB 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>)

%SNMP_MIB_ISSU-3-SESSION_UNREGISTRY : SNMP MIB ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	The SNMP MIB 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>)

%SNMP_MIB_ISSU-2-SESSION_NEGO : SNMP MIB ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation	An ISSU-compliant client transitions through a series of internal states. The SNMP MIB 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>)

%SNMP_MIB_ISSU-2-SEND_NEGO_FAILED : SNMP MIB ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation	The SNMP MIB 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)

%SNMP_MIB_ISSU-2-GET_BUFFER : SNMP MIB ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation	The SNMP MIB 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)

%SNMP_MIB_ISSU-3-CAP_NOT_COMPATIBLE : SNMP MIB ISSU client capability exchange result incompatible.

Explanation	The SNMP MIB ISSU client capability exchange have negotiated as incompatible with the peer.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu negotiated capability <Session_ID>)

%SNMP_MIB_ISSU-3-CAP_INVALID_SIZE : SNMP MIB ISSU client capability list is empty.

Explanation	The SNMP MIB ISSU client capability exchange list size is invalid.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entires <Client_ID>)

SONET

%SONET-4-ALARM : [chars]: [chars] [chars]

Explanation	The specified SONET Alarm has been declared or released.
Recommended Action	Recommended action is to repair the source of the alarm.

%SONET-4-APSMM : [chars]: APS mode mismatch - [chars]

Explanation	There has been a unidirectional/bidirectional mismatch detected by the APS system
Recommended Action	It is recommended that the router configuration match the provisioned circuit.

%SONET-3-BADAUTH : [chars]: APS Bad authentication from [IP_address],

Explanation	APS software has detected unauthorized message.
Recommended Action	This message could result from improper configuration, unauthorized access, or packet corruption. LOG_STD_ACTION

%SONET-3-MISVER : [chars]: APS version mismatch.t WARNING: Loss of Working-Protect link can deselect botht protect and working interfaces. [chars] router requirest software upgrade for full protection.

Explanation	APS software has detected that either the working or protect router requires software upgrade. APS operation can continue prior to the upgrade.
Recommended Action	Upgrade specified router.

%SONET-6-APSREFL : [chars]: Remote reflection of APS status now [chars]

Explanation	APS software has detected a change in the reflected local APS status
Recommended Action	None - normal situation.

%SONET-6-APSMANPRO : Manual APS switchover initiated for [chars]

Explanation	APS manual switchover is initialted
Recommended Action	None - normal situation.

%SONET-3-APSEVENT : [chars]: APS event type error: event [dec] undefined

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

%SONET-6-APSREMSWI : [chars]: Remote APS status now [chars]

Explanation	APS software has detected a change in the APS status of the remote interface
Recommended Action	None - normal situation.

%SONET-3-APSNCHN : APS Local request [dec] has no corresponding channel number

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

%SONET-3-APSNOINTFC : APS No interfaces available for IP connection

Explanation	APS requires an out-of-band path for inter-router communication.
Recommended Action	Configure an out-of-band path for inter-router APS communication

%SONET-3-NOBUFFER : No buffer available for sending APS message

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

%SONET-3-NOSOCKET : Unable to open socket

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

%SONET-3-APSCOMM : [chars]: [chars]

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

%SONET-3-APSCOMMEST : [chars]: Link to [chars] channel established - PGP protocol version [dec]

Explanation	APS has established connectivity between working and protect routers.
Recommended Action	None - information only.

%SONET-3-APSCOMMCHANGE : [chars]: Link to [chars] channel reverts to PGP protocol version [dec]

Explanation	APS has reverted to a different version of the PGP protocol between working and protect routers.
Recommended Action	None - information only.

%SONET-3-APSCOMMLOST : [chars]: Link to [chars] channel lost

Explanation	Connectivity between Working and Protect has been lost. APS operation can continue in degraded mode.
Recommended Action	Restore connectivity between working and protect routers.

%SONET-3-ALARMTIMERFAIL : [chars]

Explanation	Alarm timer monitor process creation failed

%SONET-3-ALARMTIMERFAIL : [chars]

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.

%SONET-3-APSSYNCSECONDARY : [dec]/[dec]: No hwidb

Explanation	New secondary RP unable to find device descriptor block corresponding to slot/unit specified by primary 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.

%SONET-3-APSHAHOLDTIME : [chars]: [chars]

Explanation	Messages issued by HA APS when PGP holdtime is adjusted
Recommended Action	None - information only.

%SONET-3-DELAYTIMER : [chars]

Explanation	Delay timer creation failure
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.

%SONET-3-BADTCA : TCA signal [dec] is invalid

Explanation	TCA software has malfunctioned.
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.

%SONET-3-BADTCATH : TCA threshold [int] is not supported

Explanation	The specific TCA threshold is not supported
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.

SONETIFMIB

%SONETIFMIB-3-OUTOFBOUND : Out of bound values path=[dec]/tug2=[dec]/e1=[dec]

Explanation	Invalid values used while determining the ifAlias
Recommended Action	No action is required.

%SONETIFMIB-3-NULLPTR : NULL pointer at step = [dec]

Explanation	Attempted to initialize ifAlias for VT using a NULL pointer.
Recommended Action	No action is required.

SONETMIB

%SONETMIB-1-LOSTUPDATE : Lost raw stats update for if_index=[dec]

Explanation	
Recommended Action	

%SONETMIB-1-MALLOCNEW : Malloc failed for new interface=[dec]

Explanation	Unable to allocate enough memory to create SONET MIB structure for new interface.
Recommended Action	No action is required.

%SONETMIB-1-DELETE : could not delete interface, if_index=[dec]

Explanation	The specified interface was not successfully dequeued.
Recommended Action	No action is required.

%SONETMIB-3-NULLCFGPTR : NULL SONET MIB config pointer, if_index=[dec]

Explanation	Attempted to initialize the SONET MIB using a NULL pointer.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

SPAN through SPA_ETHER_INTERNAL_IF

- SPAN

- SPANTREE

- SPANTREE_VLAN_SHIM

- SPANTREE_VLAN_SW

- SPA_CHOCX

- SPA_CHOCX_MCPRP

- SPA_CHOC_DSX

- SPA_CT3

- SPA_DSPRM

- SPA_ETHER_INTERNAL_IF

SPAN

%SPAN-3-UNKN_ERR : An internal error occurred during a SPAN operation.

Explanation	SPAN detected an error in its internal operation.
Recommended Action	The error might be transient, in which case trying the SPAN operation again might be successful. If this fails, the switch might need to be reloaded for the desired operation to complete.

%SPAN-3-UNKN_ERR_PORT : An internal error occurred when configuring SPAN on port [chars]

Explanation	SPAN detected an error in its internal operation.
Recommended Action	The error might be transient, in which case trying the SPAN operation again might be successful. If this fails, the switch might need to be reloaded for the desired operation to complete.

%SPAN-3-MEM_UNAVAIL : Memory was not available to perform the SPAN operation

Explanation	Unable to perform a SPAN operation because of a lack of memory
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%SPAN-3-SESS_HW_UNAVAIL : SPAN hardware resource not available [chars]

Explanation	The system could not allocate a SPAN hardware resource for the feature specified in the error message. A possible cause of this condition is that all available SPAN source sessions are already in use. The system can be configured with a maximum of two SPAN source sessions or one RSPAN source session
Recommended Action	Remove one of the existing SPAN or RSPAN source sessions and retry the operation.

%SPAN-5-ERSPAN_ADJ_TUNNEL : ERSPAN Destination behind a tunnel. Shutting down session [dec]

Explanation	The next hop to the IP Address specified as the ERSPAN destination lies behind a tunnel. This configuration is not supported. ERSPAN session is shut down when such configuration is detected
Recommended Action	Specify another IP address as the ERSPAN destination which does not have tunnel as the next-hop adjacency.

%SPAN-6-SPAN_EGRESS_REPLICATION_MODE_CHANGE : Span Egress HW Replication Mode Change Detected. Current replication mode for session [chars] is [chars]

Explanation	When auto detection of egress span replication mode is enabled, the system will transition any available sessions to centralized mode when an distributed egress span incapable linecard is inserted. The system will transition back the available sessions to distributed egress span mode when the last distributed egress span incapable linecard is removed
Recommended Action	To prevent a session switching back to distributed egress span mode,use the command monitor session egress replication-mode centralized

%SPAN-3-REDIR_HW_UNAVAIL : Redirect hardware resource not available [chars]

Explanation	The system could not allocate resource for redirecting BPDUs. A possible cause of this condition is that all available redirect registers in PFC are used by other features.
Recommended Action	Free up a redirect register in PFC by unconfiguring features that use redirect registers and retry allowing BPDUs for SPAN servicemodules. If Protocol Tunneling is configured on any ports, then remove Protocol Tunneling configuration from all ports to free up one redirect register.

%SPAN-5-PKTCAP_START : Packet capture session [dec] started

Explanation	Packet capture is activated by user or after the scheduled time

%SPAN-5-PKTCAP_START : Packet capture session [dec] started

Recommended Action	Stop the capture when it is not required. You can change the rate of packets reaching CPU for capturing by configuring the rate-limit value in the monitor session type capture config mode. Protocol packets may get dropped if the capture traffic rate is high.

%SPAN-5-PKTCAP_STOP : Packet capture session [dec] ended [chars], [dec] packets captured

Explanation	Packet capture is stopped. This will happen if the capture buffer is full or if user stops the capture or if capture timeout happens.
Recommended Action	Packet capture is stopped. You can export the capture buffer using the 'monitor capture <id> export buffer <url>' command. Buffer can be dislayed on the console also. Delete the capture session, if it is no longer required.

SPANTREE

%SPANTREE-3-PORT_SELF_LOOPED : [chars] disabled.- received BPDU src mac ([enet]) same as that of interface

Explanation	The source MAC address contained in a BPDU received on the listed interface matches the MAC address assigned to that interface This indicates the possibility that a port is looped back to itself, possibly due to a diagnostic cable being plugged in. The interface will be administratively shutdown.
Recommended Action	Check the interface configuration and any cable plugged into the interface. Once problem resolved, re-enable interface by doing a no shutdown in the interface configuration.

%SPANTREE-3-BAD_PORTNUM_SIZE : Rejected an attempt to set the port number field size to [dec] bits (valid range is [dec] to [dec] bits).

Explanation	The spanning tree port identifier is a 16 bit wide field that is, by default, divided evenly between port priority and port number, each sub field being 8 bits wide. This allows the port number field to represent port numbers between 1 and 255. However, on systems with greater than 255 ports, the size of port number portion of the port id must be increased to support the greater number of ports. This is done by the STP subsystem at system init time since the maximum number of ports on a particular platform will not change. This error would only occur due to an error in the platform specific code which caused it to request more (or less) bits than were possible. This error should not be seen in any production images.

%SPANTREE-3-BAD_PORTNUM_SIZE : Rejected an attempt to set the port number field size to [dec] bits (valid range is [dec] to [dec] bits).

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

%SPANTREE-7-RECV_1Q_NON_TRUNK : Received 802.1Q BPDU on non trunk [chars] [chars].

Explanation	A SSTP BPDU was received on the listed interface that was not operationally a trunk.
Recommended Action	Verify that the configuration and operational state of the listed interface and that of the interface to which it is connected have the same mode (access vs trunk). If mode is trunk, verify the same encapsulation (none, ISL, 802.1Q). Once these parameters are consistent, spanning tree will automatically unblock the interfaces as appropriate.

%SPANTREE-2-RECV_1Q_NON_1QTRUNK : Received 802.1Q BPDU on non 802.1Q trunk [chars] [chars].

Explanation	The listed interface on which a SSTP BPDU was received, was in trunk mode but not using 802.1Q encapsulation.
Recommended Action	Verify that the configuration and operational state of the listed interface and that of the interface to which it is connected have the same mode (access vs trunk). If mode is trunk, verify the same encapsulation (ISL, 802.1Q). Once these parameters are consistent, spanning tree will automatically unblock the interfaces as appropriate.

%SPANTREE-2-RECV_PVID_ERR : Received BPDU with inconsistent peer vlan id [dec] on [chars] [chars].

Explanation	The listed interface received a SSTP BPDU that is tagged with a VLAN id that does not match the VLAN id on which the BPDU was received. This occurs when the native VLAN is not consistently configured on both ends of a 802.1Q trunk.
Recommended Action	Verify that the configuration of the native VLAN id is consistent on the interfaces on each end of the 802.1Q trunk connection. Once corrected, spanning tree will automatically unblock the interfaces as appropriate.

%SPANTREE-2-RECV_BAD_TLV : Received SSTP BPDU with bad TLV on [chars] [chars].

Explanation	The list interface received a SSTP BPDU that was missing the VLAN id tag. The BPDU is discarded.

%SPANTREE-2-RECV_BAD_TLV : Received SSTP BPDU with bad TLV on [chars] [chars].

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

%SPANTREE-7-BLOCK_PORT_TYPE : Blocking [chars] on [chars]. Inconsistent port type.

Explanation	The listed interface is being held in spanning tree blocking state until the port type inconsistency is resolved.
Recommended Action	Verify that the configuration and operational state of the listed interface and that of the interface to which it is connected have the same mode (access vs trunk). If mode is trunk, verify the same encapsulation (ISL, 802.1Q). Once these parameters are consistent, spanning tree will automatically unblock the interfaces as appropriate.

%SPANTREE-4-PORT_NOT_FORWARDING : [chars] [chars] [chars] [chars]

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

%SPANTREE-2-BLOCK_PVID_PEER : Blocking [chars] on [chars]. Inconsistent peer vlan.

Explanation	The spanning tree port associate with the listed spanning tree instance and interface will be held in spanning tree blocking state until the port VLAN Id (PVID) inconsistency is resolved. The listed spanning tree instance is that of the native VLAN id of interface on the peer switch to which the listed interface is connected.
Recommended Action	Verify that the configuration of the native VLAN id is consistent on the interfaces on each end of the 802.1Q trunk connection. Once corrected, spanning tree will automatically unblock the interfaces as appropriate.

%SPANTREE-2-BLOCK_PVID_LOCAL : Blocking [chars] on [chars]. Inconsistent local vlan.

Explanation	The spanning tree port associate with the listed spanning tree instance and interface will be held in spanning tree blocking state until the Port VLAN ID (PVID) inconsistency is resolved. The listed spanning tree instance is that of the native VLAN id of the listed interface.

%SPANTREE-2-BLOCK_PVID_LOCAL : Blocking [chars] on [chars]. Inconsistent local vlan.

Recommended Action	Verify that the configuration of the native VLAN id is consistent on the interfaces on each end of the 802.1Q trunk connection. Once corrected, spanning tree will automatically unblock the interfaces as appropriate.

%SPANTREE-2-UNBLOCK_CONSIST_PORT : Unblocking [chars] on [chars]. Port consistency restored.

Explanation	The Port VLAN ID and/or Port Type inconsistencies have been resolved and spanning tree will now unblock the listed interface of the listed spanning tree instance as appropriate.
Recommended Action	No action is required.

%SPANTREE-2-BLOCK_BPDUGUARD : Received BPDU on port [chars] with BPDU Guard enabled. Disabling port.

Explanation	A BPDU was received in the interface specified in the error message that has the spanning tree BPDU Guard feature enabled. As a result, the interface was administratively shut down.
Recommended Action	Either remove the device sending BPDUs or disable the BPDU Guard feature. The BPDU Guard feature can be locally configured on the interface or globally configured on all ports that have portfast enabled. After the conflict has been resolved, reenable the interface by entering the `no shutdown` command in interface configuration mode.

%SPANTREE-2-BLOCK_BPDUGUARD_VP : Received BPDU on port [chars], vlan [dec] with BPDU Guard enabled. Disabling vlan.

Explanation	A BPDU was received on the interface and vlan specified in the error message. The spanning tree BPDU Guard feature was enabled and configured to shutdown the vlan. As a result, the vlan was placed in the error-disabled state.
Recommended Action	Either remove the device sending BPDUs or disable the BPDU Guard feature. The BPDU Guard feature can be locally configured on the interface or globally configured on all ports that have portfast enabled. After the conflict has been resolved, reenable the interface/vlan by entering the `clear errdisable` command.

%SPANTREE-2-ROOTGUARD_CONFIG_CHANGE : Root guard [chars] on port [chars].

Explanation	The spanning tree root guard configuration for the listed interface has been changed. If enabled, any BPDU received on ths interface which advertizes a superior spanning tree root bridge to that already in use will cause the interface to be put into blocking state and marked as root guard inconsistent.

%SPANTREE-2-ROOTGUARD_CONFIG_CHANGE : Root guard [chars] on port [chars].

Recommended Action	Verify that this is the desired configuration for the listed interface. Correct it if this is not the desired configuration otherwise no further action is required.

%SPANTREE-2-ROOTGUARD_BLOCK : Root guard blocking port [chars] on [chars].

Explanation	A BPDU was received on the listed interface which advertises a superior spanning tree root bridge to that currently in use. The interface is put into blocking state and marked as root guard inconsistent in order to prevent a suboptimal spanning tree topology to form.
Recommended Action	Issue the **show spanning-tree inconsistentports** command to review the list of interfaces with root guard inconsistencies. Determine why devices connected to the listed ports are sending BPDUs with a superior root bridge and take action to prevent further occurances. Once the bogus BPDUs have been stopped, the interfaces will automatically recover and resume normal operation. Make sure that it is appropriate to have root guard enabled on the interface.

%SPANTREE-2-ROOTGUARD_UNBLOCK : Root guard unblocking port [chars] on [chars].

Explanation	The listed interface is no longer receiving BPDUs advertising a superior root bridge. The root guard inconsistency is cleared for the interface and then it is taken out of the blocking state if appropriate.
Recommended Action	No action is required.

%SPANTREE-2-LOOPGUARD_CONFIG_CHANGE : Loop guard [chars] on port [chars].

Explanation	The spanning tree loopguard configuration for the listed interface has been changed. If enabled, the interface will be put into blocking state and marked as loopguard inconsistent when the message age timer expires because no BPDU were received from the designated bridge. This feature is mainly used to detect unidirectional links
Recommended Action	Verify that this is the desired configuration for the listed interface. Correct it if this is not the desired configuration otherwise no further action is required.

%SPANTREE-2-LOOPGUARD_BLOCK : Loop guard blocking port [chars] on [chars].

Explanation	The spanning tree message age timer has expired because and no BPDUs were received from the designated bridge. Since this condition could be caused by an unidirectional link failure, the interface is put into blocking state and marked as loop guard inconsistent in order to prevent possible loops from being created

%SPANTREE-2-LOOPGUARD_BLOCK : Loop guard blocking port [chars] on [chars].

Recommended Action	Issue the `show spanning-tree inconsistentports` command to review the list of interfaces with loop guard inconsistencies. Determine why devices connected to the listed ports are not sending BPDUs. One reason could be that they do not run the spanning tree protocol; in this case you should disable loopguard in the inconsistent interface/s or start the spanning tree protocol on the other side of the link/s.depending on the context. Another reason could be a failure in the cable: if the link has a failure that makes it unidirectional (you can transmit but you can not receive) it should be replaced with a proper cable.

%SPANTREE-2-LOOPGUARD_UNBLOCK : Loop guard unblocking port [chars] on [chars].

Explanation	The listed interface has received a BPDU and therefore if the inconsistency was due to an unidirectional link failure, now the problem is not there anymore. The loop guard inconsistency is cleared for the interface which is taken out of the blocking state if appropriate.
Recommended Action	No action is required.

%SPANTREE-2-CHNL_MISCFG : Detected loop due to etherchannel misconfiguration of [chars] [chars]

Explanation	A loop caused the misconfiguration of a channel group has been detected. An example of such a misconfiguration would be where the ports on one side of the etherchannel either aren't configured to be in the channel or failed to bundle for some reason while the other side has successfully bundled the ports into the etherchannel
Recommended Action	Determine which local ports are involved using the command `show interfaces status err-disabled` and then check etherchannel configuration on the remote device using the command `show etherchannel summary` on the remote device. Once the configuration is corrected, do `shutdown / no shutdown` on the associated port-channel interface.

%SPANTREE-3-ERR_NO_UNIDIR_EDGE : [chars]: Portfast disabled, reverting to bidirectional mode

Explanation	Because UCP is for edge ports only, portfast must be configured. This messageis typically seen when spanning-tree portfast is enabled on a port, thenauthentication control-direction is set to inbound (unidirectional), and thenportfast is disabled.
Recommended Action	Re-enable portfast on the edge port. This will re-enable unidirectionalauthentication control.

%SPANTREE-5-EXTENDED_SYSID : Extended SysId [chars] for type [chars]

Explanation	The extended system id feature has either enabled or disabled for the given type of spanning tree. If enabled, the spanning tree instance identifier is stored in the lower portion of the bridge id priority field and this will cause the allowed values for the bridge priority to be limited to the range of 0 to 61440 in increments of 4096. If disabled, the bridge id priority field consists entirely of the configured priority but some spanning tree features may not be available on a given platform (i.e. 4096 vlan support). On some platforms, this feature may be mandatory.
Recommended Action	No action is required.

%SPANTREE-2-PVSTSIM_FAIL : Blocking [chars] port [chars]: Inconsitent [chars] PVST BPDU received on VLAN [dec], claiming root [dec]:[enet]

Explanation	When a MST switch is connected to a PVST+ switch, the CIST (MST00) information on the port of the MST switch must be consistently better than all the PVST+ messages if the port is designated or consistently worse than all the PVST+ messages if the port is root. If this constraint is not respected, the port on the MST switch is blocked in order to prevent a potential bridging loop
Recommended Action	When STP is converging after a new switch, or switch port is added to the topology, this condition may happen transiently. The port unblocks automatically in such cases. If the port remains blocked, identify the root bridge as reported in the message, and configure a worse or better priority for the VLAN spanning tree consistent with the CIST role on the port of the MST switch. There could be more inconsistencies than the message indicates, and the port will not recover until all such inconsistencies are cleared. If you cannot determine which other VLANs have inconsistencies, disable and reenable the port. This message will appear again and specify another VLAN with inconsistencies to be fixed. Repeat this process until all inconsistencies on all VLANs are cleared.

%SPANTREE-2-PVSTSIM_OK : PVST Simulation inconsistency cleared on port [chars].

Explanation	The listed interface is no longer receiving PVST BPDUs advertising an information inconsistent with the CIST port information. The PVST Simulation Inconsistency is cleared and the interface returns to normal operation
Recommended Action	No action is required.

%SPANTREE-6-PORT_STATE : Port [chars] instance [dec] moving from [chars] to [chars]

Explanation	The Spanning-Tree port has changed state.
Recommended Action	No action is required.

%SPANTREE-7-PORTDEL_SUCCESS : [chars] deleted from Vlan [dec]

Explanation	The interface has been deleted from Vlan
Recommended Action	No action is required.

%SPANTREE-6-PORTDEL_ALL_VLANS : [chars] deleted from all Vlans

Explanation	The interface has been deleted from all Vlans
Recommended Action	No action is required.

%SPANTREE-6-PORTADD_ALL_VLANS : [chars] added to all Vlans

Explanation	The interface has been added to all Vlans
Recommended Action	No action is required.

%SPANTREE-5-TOPOTRAP : Topology Change Trap for [chars] [dec]

Explanation	A trap has been generated to indicate the change in topology
Recommended Action	No action is required.

%SPANTREE-5-ROOTCHANGE : Root Changed for [chars] [dec]: New Root Port is [chars]. New Root Mac Address is [enet]

Explanation	The Root has changed for an instance of spanning tree
Recommended Action	No action is required.

%SPANTREE-3-PRESTD_NEIGH : pre-standard MST interaction not configured ([chars]). Please, configure: 'spanning-tree mst pre-standard' on ports connected to MST pre-standard switches.

Explanation	The switch has received a pre-standard MST BPDU on a port that is not configured for pre-standard MST BPDU transmission. The switch will automatically adjust its mode of operation on this port and will start sending pre-standard BPDUs. However, this auto-detection of pre-standard neighbors is not 100% accurate and it is recommended to configure explicitly the port for pre-standard MST BPDU transmission. This warning message will only be display once.

%SPANTREE-3-PRESTD_NEIGH : pre-standard MST interaction not configured ([chars]). Please, configure: 'spanning-tree mst pre-standard' on ports connected to MST pre-standard switches.

Recommended Action	Configure 'spanning-tree mst pre-standard' on all the ports that are connected to switches running Cisco's pre-standard version of MST. It is recommended to migrate all the switches in the network to the IEEE standard MST version when it is possible.

%SPANTREE-2-BRIDGE_ASSURANCE_BLOCK : Bridge Assurance blocking port [chars][chars].

Explanation	BPDUs were not received from a neighboring switch on the interface that has spanning tree Bridge Assurance configured. As a result, the interface was moved to the spanning tree Blocking state
Recommended Action	Either disable Bridge Assurance configuration on the interface or make sure that the interface is connected to a L2 switch/bridge device

%SPANTREE-2-BRIDGE_ASSURANCE_UNBLOCK : Bridge Assurance unblocking port [chars][chars].

Explanation	The interface listed in the message has been restored to normal spanning tree state after receiving BPDUs from the neighboring L2 switch/bridge
Recommended Action	No action is required.

%SPANTREE-2-PVST_PEER_BLOCK : PVST+ peer detected on port [chars]

Explanation	PVST+ BPDU(s) are detected on the listed interface when MSTP PVST+ Simulation feature is disabled
Recommended Action	Please make sure the PVST+ switch is removed from the network or enable the MSTP PVST Simulation feature.

%SPANTREE-2-PVST_PEER_UNBLOCK : Unblocking port [chars]

Explanation	The listed interface is no longer receiving the PVST+ BPDUs. The inconsistency is cleared and the interface returns to normal operation.
Recommended Action	No action is required.

%SPANTREE-2-NOMEM : Memory Allocation Failure - [chars]: [chars]

Explanation	The system could not allocate the memory that is required for the STP feature. This condition might indicate that more memory must be installed on the system.

%SPANTREE-2-NOMEM : Memory Allocation Failure - [chars]: [chars]

Recommended Action	Check available memory and install more if necessary. If sufficient memory is available, reload the Cisco IOS image on the affected platform. If the error persists, LOG_STD_SH_CMD_ACTION(show tech-support and show logging)

SPANTREE_VLAN_SHIM

%SPANTREE_VLAN_SHIM-2-MAX_INSTANCE : Platform limit of [dec] STP instances exceeded. No instance created for [chars] (port [chars]).

Explanation	The number of currently active VLAN spanning tree instances has reached a platform specific limit. No additional VLAN instances will be created until the number of existing instances drops below the platform limit. The message shows the smallest VLAN number of those VLANs that are unable have STP instances created.
Recommended Action	Reduce the number of currently active spanning tree instances by either disabling some of the currently active spanning tree instances or deleting the VLANs associated with currently active spanning tree instances. Note : need to manually enable the spanning-trees that were unable to be created due to limited instances.

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

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

SPANTREE_VLAN_SW

%SPANTREE_VLAN_SW-2-MAX_INSTANCE : Platform limit of [dec] STP instances exceeded. No instance created for [chars] (port [chars]).

Explanation	The number of currently active VLAN spanning tree instances has reached a platform specific limit. No additional VLAN instances will be created until the number of existing instances drops below the platform limit. The message shows the smallest VLAN number of those VLANs that are unable have STP instances created.
Recommended Action	Reduce the number of currently active spanning tree instances by either disabling some of the currently active spanning tree instances or deleting the VLANs associated with currently active spanning tree instances. Note : need to manually enable the spanning-trees that were unable to be created due to limited instances.

SPA_CHOCX

%SPA_CHOCX-3-ERROR : Failed to create for [chars] : slot/bay:[dec]/[dec]

Explanation	The channelized SPA controller encountered an error.
Recommended Action	Check the memory availabe in system and LOG_STD_SH_TECH_ACTION

%SPA_CHOCX-3-FATAL_ERROR : Fatal error for [chars] : slot/bay:[dec]/[dec]

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

%SPA_CHOCX-3-INVALID_SPA_TYPE : Invalid SPA type : slot/bay:[dec]/[dec], spa_type=[dec].

Explanation	The channelized SPA type cannot be recognized by the version of Cisco IOS software currently running on the system.
Recommended Action	Upgrade your system to a version of Cisco IOS software that supports this SPA type.

%SPA_CHOCX-3-CREATE_FAIL : Failed to create [chars] : slot/bay:[dec]/[dec]

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

%SPA_CHOCX-3-NULL_INSTANCE : Null [chars] instance for [chars] : slot/bay:[dec]/[dec]

Explanation	The instance pointer is NULL when getting data structure.
Recommended Action	SPA_CHOCX_INTERNAL_SW_ERROR_ACTION

%SPA_CHOCX-3-UNKNOWN_OPTION : Received unknown [chars]: option=[dec]

Explanation	Unknown option received.
Recommended Action	SPA_CHOCX_INTERNAL_SW_ERROR_ACTION

%SPA_CHOCX-3-RETURN_ERROR : Return error for [chars]: return_value=[dec]

Explanation	Return error code received.
Recommended Action	SPA_CHOCX_INTERNAL_SW_ERROR_ACTION

%SPA_CHOCX-6-XFP_OK : [dec]/[dec]/[dec]: [chars] detected/inserted

Explanation	XFP has been detected or inserted in a port in Channelized SPA.
Recommended Action	This is a information message, no action required

%SPA_CHOCX-3-XFP_UNSUPPORTED : [dec]/[dec]/[dec]: [chars] detected/inserted is not supported

Explanation	Unsupported XFP has been detected or inserted in a port in Channelized SPA.
Recommended Action	Remove the unsupported XFP/SFP and replace it with supported one.

%SPA_CHOCX-6-XFP_REMOVED : [dec]/[dec]/[dec]

Explanation	XFP removed from a port in Channelized SPA
Recommended Action	This is a information message, no action required

%SPA_CHOCX-3-NULL : [chars]

Explanation	The NULL pointer was detected when getting the data structure.
Recommended Action	SPA_CHOCX_ENABLE_DEBUG_ACTION

%SPA_CHOCX-6-SONET_ALARM : [chars] [chars] [chars] [chars] [chars]

Explanation	This message is generated whenever (a) sonet alarm is present in the system (and the alarm status has been reported to the RP) or (b) sonet alarm has been removed from the system (and the alarm status has been reported to the RP
Recommended Action	No action is required.

%SPA_CHOCX-3-INTFC_FAILED : Channel provisioning failed for [chars]

Explanation	Channel could not be provisioned on SPA for this interface, interface corresoponding to that channel has been moved to down state. If this interface was provisoned using the user interface then it may not appear in the interface list.
Recommended Action	SPA_CHOCX_INTERNAL_SW_ERROR_ACTION

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

Explanation	The OC3/STM1 RP driver running configuration is corrupted.
Recommended Action	SPA_CHOCX_INTERNAL_SW_ERROR_ACTION

%SPA_CHOCX-3-NULL_SUBBLOCK : Null ssb for [chars]

Explanation	The hwidb subblock is NULL.
Recommended Action	SPA_CHOCX_INTERNAL_SW_ERROR_ACTION

%SPA_CHOCX-5-DEF_SUBRATE : [chars] [chars]

Explanation	Remote subrate configuration changed.
Recommended Action	Inform the network operator that subrate configuration was changed by remote end.

%SPA_CHOCX-3-FRR_ERROR : Error in handling FRR: [chars], [chars], [hex], [hex]

Explanation	Error in FRR processing.
Recommended Action	This is a internal software error. If this error happened while configuring FRR, try reconfiguring the interface. If the error persists or occurred during normal operation, decode the traceback and LOG_STD_ACTION

%SPA_CHOCX-3-CHOCX_NAMESTRING_ERROR : failed to get [chars] namestring

Explanation	Error in retrieving namestring of a specified Controller/IDB
Recommended Action	This is a internal software error. If the error persists or occurred during normal operation, decode the traceback and LOG_STD_ACTION

%SPA_CHOCX-3-SONET_ALARM_PROC_ERR : [chars] Error has occurred while processing in the sonet alarm-proc

Explanation	Either free/create of the memory failed in SONET alarm proc
Recommended Action	

SPA_CHOCX_MCPRP

%SPA_CHOCX_MCPRP-5-PATH_UPDOWN : Path [chars], changed state to [chars]

Explanation	A Sonet high order path changed its state.
Recommended Action	This is a internal software error. Decode the traceback and get the output of **show controller sonet**. Look into this output to see if there are any alarms being reported at the path level. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with the output of **show tech** details

%SPA_CHOCX_MCPRP-5-T3_UPDOWN : T3 [chars], changed state to [chars]

Explanation	A T3 within STS1 changed its state.
Recommended Action	This is a internal software error. Decode the traceback and get the output of **show controller sonet**. Look into this output to see if there are any alarms being reported at the T3 level. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with the output of **show tech** details

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

Explanation	The OC3/STM1 RP driver running configuration is corrupt
Recommended Action	This is a internal software error. Decode the traceback and get the output of **show running-config**. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with the output of **show tech** details

%SPA_CHOCX_MCPRP-1-ALLOCFAIL : OC3/STM1 [dec]/[dec] [chars] allocation failure

Explanation	CHOCX controller or channel memory allocation failure
Recommended Action	This is a internal software error. Decode the traceback. Enable **debug hw-module subslot <slot>/<bay> oir plugin** when the problem is happening. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with output of **show logging** and the output of **show tech** details.

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

Explanation	The CHOCX RP driver queries the LC for SONET information, the LC didn't reply.
Recommended Action	This is a internal software error. Decode the traceback. Enable **debug hw-module subslot <slot>/<bay> command**. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with the output of **show logging** and the output of <CmdBold>show tech<NoCmdBold details.

%SPA_CHOCX_MCPRP-3-PLUGIN_ERR : [chars]

Explanation	The RP plugin encountered an error during one of the Plugin calls
Recommended Action	This is a internal software error. Decode the traceback. Enable **debug hw-module subslot <slot>/<bay> oir plugin** when the problem is happening. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with the output of **show logging** and the output of **show tech** details.

%SPA_CHOCX_MCPRP-3-NULL_SUBBLOCK : Null ssb for [chars]

Explanation	The hwidb subblock is NULL
Recommended Action	This is a internal software error. Decode the traceback and get the output of **show running-config**. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with the output of **show running** and **show tech** details.

%SPA_CHOCX_MCPRP-3-APS_CMD_FAIL : Failed to send APS command [hex] to [chars] (retcode [hex])

Explanation	APS command sending failed
Recommended Action	This is a internal software error. If this error happened while configuring APS, try reconfiguring the interface. If the error persists or occurred during normal operation, decode the traceback and LOG_STD_ACTION

%SPA_CHOCX_MCPRP-5-DEF_SUBRATE : [chars] [chars]

Explanation	Remote subrate configuration changed
Recommended Action	Inform the network operator that subrate configuration changed by remote end

%SPA_CHOCX_MCPRP-3-FRR_ERROR : Error in handling FRR: [chars], [chars], [hex], [hex]

Explanation	Error in FRR processing
Recommended Action	This is a internal software error. If this error happened while configuring FRR, try reconfiguring the interface. If the error persists or occurred during normal operation, decode the traceback and LOG_STD_ACTION

SPA_CHOC_DSX

%SPA_CHOC_DSX-4-UNPROV_FAIL : Interface [chars] unprovisioning failed: [chars]

Explanation	The system failed to respond to an unprovisioning command. A hidden VLAN could not be deleted within a 2 second timeout window. This condition may be caused by a system that is too busy, or by a FIB IPC failure. The line card driver code will attempt to delete the hidden VLAN.
Recommended Action	If processing continues normally, no action is required. If system operation is adversely affected, LOG_STD_ACTION

%SPA_CHOC_DSX-3-NODESTROYSUBBLOCK : The [chars] subblock named [chars] was not removed

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

%SPA_CHOC_DSX-3-AUTODNR : [chars] failed for slot [dec] bay [dec]

Explanation	AUTODNR/USNDNR process has failed. The SPA and SIP are out of synchronization. This condition indicates a software error.

%SPA_CHOC_DSX-3-AUTODNR : [chars] failed for slot [dec] bay [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.

%SPA_CHOC_DSX-3-UNKNOWN_CMD : Unknown [chars] command recieved on slot/bay:[dec]/[dec]. Command Type = [dec]

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

%SPA_CHOC_DSX-3-INVLIAD_IF_INDEX : Invalid interface index [dec] on slot/bay:[dec]/[dec]. Min. Index = [dec]. MAx. Index = [dec].

Explanation	The index is not valid for the interface 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/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-NULL_DATA_STRUCTURE : Failed to create [chars] on slot/bay:[dec]/[dec]. Port Number = [dec].

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

%SPA_CHOC_DSX-3-INVALID_IF_TYPE : Invalid SPA type [dec] on [chars]. Port Number = [dec].

Explanation	The software can not recognize the interface type

%SPA_CHOC_DSX-3-INVALID_IF_TYPE : Invalid SPA type [dec] on [chars]. Port Number = [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.

%SPA_CHOC_DSX-3-NULL_SPA_PTR :

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

%SPA_CHOC_DSX-3-NULL_VIRT_SPA_PTR : [chars]

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

%SPA_CHOC_DSX-3-SPA_CMD_SEND_ERR : Failed to send [chars] command to SPA

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

%SPA_CHOC_DSX-3-SPA_CMD_RETURN_ERR : SPA command [chars] return error [int]

Explanation	The SPA returned an error status for a host command

%SPA_CHOC_DSX-3-SPA_CMD_RETURN_ERR : SPA command [chars] return error [int]

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

%SPA_CHOC_DSX-3-EFC_ERROR : EFC ERROR: [chars] - [chars] [int]

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

%SPA_CHOC_DSX-3-T3CFG_ERROR : Interface [chars] T3 [int] config command error (cmd [int], arg [int], retval [int])

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

%SPA_CHOC_DSX-3-T1CFG_ERROR : Interface [chars] T3 [int] T1 [int] config command error (cmd [int], arg [int], retval [int])

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

%SPA_CHOC_DSX-3-VCCFG_ERROR : Interface [chars] config command error (cmd [int], arg [int], retval [int])

Explanation	A command sent from the system to a linecard has failed.
Recommended Action	This is an internal software error. Decode the traceback and get the output of the **show logging** command on RP and SIP and check if there are any errors being reported. Try to recreate the problem to see if there is a consistant method to recreate. Check the Bug Toolkit before contacting TAC. When contacting TAC, provide the above information along with the output of the **show tech-support** command.

%SPA_CHOC_DSX-3-LINK_TABLE_ERR : [chars]: Could not create link table, error [dec]

Explanation	Error creating link record table. Interfaces may not come up / pass traffic.
Recommended Action	If the ports on the SPA are not operating as expected, power down and reseat the indicated SPA card. If the error messages persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-UNCOR_MEM_ERR : SPA [dec]/[dec]: [dec] uncorrectable [chars] memory error(s) encountered. The memory address of most the recent error is: [hex] The SPA is being restarted.

Explanation	The SPA driver detected an uncorrectable memory error condition on the SPA card. Packet corruption may result.
Recommended Action	The SPA driver has encountered an uncorrectable memory error on the SPA card. The hexadecimal memory address of the most recent error is specified in the message text on the console or in the system log. Please power down and reseat the indicated SPA card. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-BAD_SIZE_ERR : SPA [dec]/[dec]: [dec] [chars] events on HDLC Controller were encountered. The SPA is being restarted.

Explanation	The SPA driver detected an error event on the HDLC controller.

%SPA_CHOC_DSX-3-BAD_SIZE_ERR : SPA [dec]/[dec]: [dec] [chars] events on HDLC Controller were encountered. The SPA is being restarted.

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

%SPA_CHOC_DSX-3-HDLC_CTRL_ERR : SPA [dec]/[dec]: [dec] [chars] events on HDLC Controller were encountered.

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

%SPA_CHOC_DSX-3-COR_MEM_ERR : SPA [dec]/[dec]: [dec] correctable [chars] memory error(s) encountered. The error has been corrected and normal processing should continue. The memory address of most the recent error is: [hex]

Explanation	The SPA driver detected a correctable memory error on the SPA card.
Recommended Action	The SPA has encountered a correctable memory error on the SPA card. The error has been corrected and normal processing should continue. The hexadecimal memory address of the most recent error is specified in the message text on the console or in the system log. If the condition persists, or other errors are indicated for the SPA, copy the error message exactly as it appears. Then power down and reseat the indicated SPA card. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-UNCOR_PARITY_ERR : SPA [dec]/[dec]: [dec] [chars] parity error(s) encountered. The address of the most recent error is: [hex]

Explanation	The SPA driver detected an uncorrectable parity error condition on the SPA card. Packet corruption may result.
Recommended Action	Please power down and reseat the indicated SPA card. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-SPI4_HW_ERR : SPA on [chars]: [chars] Hardware error was encountered.

Explanation	The SPA driver detected a Hardware error condition on the SPA card. This might result in improper operation.
Recommended Action	The SPA driver has encountered a Hardware error on the SPA's SPI4 bus. Please power down and reseat the indicated SPA card. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-SPA_SW_ERR : SPA on [chars]: [chars] Software error was encountered.

Explanation	The SPA driver detected a Software error condition on the SPA card. This might result improper operation.
Recommended Action	The SPA driver has encountered a Software error. Please first reload the configuration by doing shut/no shut on the controllers. If the problem persists, please power cycle the SPA. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the Bug Toolkit on the Cisco web-site. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-SEMAHOG : SPA on [chars]: Semaphore Hog was encountered.Hogged by process [chars]

Explanation	The semaphore used by the IPC communication between host and the SPA was hogged by one process. This behavior would cause other processes fail to send commands down to the SPA. This might result improper operation.
Recommended Action	Please first stop all the traffic on the SPA and then reload the configuration by doing shut/no shut on the controllers. If the problem persists, please power cycle the SPA. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the Bug Tookit on the Cisco web-site. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-PERIODIC_PROCESS : [chars]: periodic process error [chars].

Explanation	The SPA driver detected an error with the periodic processing routine.
Recommended Action	If the ports on the SPA are not operating as expected, take it out of service by issuing command **hw-module subslot <noCmdBold><CmdArg>slot#/bay#<noCmdArg><CmdBold> stop** followed by **hw-module subslot <noCmdBold><CmdArg>slot#/bay#<noCmdArg><CmdBold> start** for the indicated SPA card. If the error messages persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative.

%SPA_CHOC_DSX-3-DPIDX_LKUP_ERR : Failed to retrieve datapath identifier for interface [chars]

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

%SPA_CHOC_DSX-3-PROCESS_FAIL : process creation failed in [chars] spa type [chars] for [chars]

Explanation	The Periodic one second process creation failed. This indicates a software error.

%SPA_CHOC_DSX-3-PROCESS_FAIL : process creation failed in [chars] spa type [chars] 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.

%SPA_CHOC_DSX-5-CHNL_GRP_ADD : Channel Group created on the interface [chars]

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

%SPA_CHOC_DSX-5-CHNL_GRP_DEL : Channel Group delete from the interface [chars]

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

SPA_CT3

%SPA_CT3-3-INVALID_SPA_TYPE : Invalid SPA type : slot/bay:[dec]/[dec], spa_type=[dec].

Explanation	The Channelized T3 SPA type cannot be recognized by the version of Cisco IOS software currently running on the system.
Recommended Action	Upgrade your system to the latest version of Cisco IOS software in your release train. If you require further assistance, LOG_STD_SH_TECH_ACTION

%SPA_CT3-3-PROCESS_FAIL : process creation failed for [chars]

Explanation	A command could not be processed because of a process creation 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.

%SPA_CT3-3-SUBRATE_FPGA_DL_FAILED : [chars]: Failed to download the subrate FPGA image.

Explanation	The indicated SPA was not able to download the subrate FPGA image during card initialization sequence. The image might be corrupted and the system will try to recover from this error by upgrading the image.
Recommended Action	If the system cannot recover from this error automatically after a few attempts, it will power-off the affected SPA. In this case, copy the error message exactly as it appears and gather the output of the **show hw-module subslot** *slot/subslot* **fpd** and **show hw-module subslot** *slot/subslot* **oir** commands, then contact your technical support representative with the gathered information.

%SPA_CT3-5-DEF_SUBRATE : [chars] [chars]

Explanation	Remote subrate configuration changed
Recommended Action	Inform the network operator that subrate configuration changed by remote end

SPA_DSPRM

%SPA_DSPRM-3-DSPALARM : Received alarm indication from dsp ([dec]/[dec]/[dec]).

Explanation	Operational error detected in DSP.
Recommended Action	Reload the SPA card and if the problem persists LOG_STD_ACTION

%SPA_DSPRM-5-UPDOWN : DSP ([dec]/[dec]/[dec]) is [chars]

Explanation	DSP device changed state up/down
Recommended Action	No action is required.

%SPA_DSPRM-5-RESTART : DSP ([dec]/[dec]/[dec]) is restarted

Explanation	DSP device restarted
Recommended Action	No action is required.

%SPA_DSPRM-3-INSUFFICIENT : Insufficient memory for [chars]

Explanation	Insufficient memory for SPA-DSP DSPRM operation

%SPA_DSPRM-3-INSUFFICIENT : Insufficient memory for [chars]

Recommended Action	Enter the `show memory summary` command to attempt to determine the cause of the error. LOG_STD_REDUCE_ACTION

%SPA_DSPRM-3-DSPALARMINFO : [chars]

Explanation	DSP Alarm Data
Recommended Action	Reload the SPA card and if the problem persists LOG_STD_ACTION

SPA_ETHER_INTERNAL_IF

%SPA_ETHER_INTERNAL_IF-3-ETHER_INTERNAL_IF_SW_ERR : NULL

Explanation	The module driver detected a software error condition on the module card. This might result in improper operation.
Recommended Action	The module driver has encountered a software error. Power down and reseat the indicated module card. If the problem persists, copy the error message exactly as it appears in the console and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN , or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the `show logging`, `show monitor event-trace spa all` and `show tech-support` commands, your troubleshooting logs, and the specific error message.

SPA_FPD through SPA_UCSE_IF

SPA_FPD

%SPA_FPD-6-IMG_CORRUPTION : [chars]: FPD image corruption detected for [chars] (ID=[dec]), forcing upgrade of the corrupted image to correct this problem.

Explanation	The software detected corruption on a FPD image and it is triggering the FPD automatic upgrade mechanism to correct the problem.
Recommended Action	No Action is required.

%SPA_FPD-4-UPGRADE_ABORTED : [chars]: Upgrade aborted for [chars] (ID=[dec]) - [chars]

Explanation	The upgrade operation for the FPD image was aborted because the provided image cannot be used by the driver to perform the image programming operation.
Recommended Action	Make sure that the provide FPD image package for the FPD upgrade operation is a valid one for the Cisco IOS release in use. This can be verified with the **show upgrade fpd package default** command to display the required FPD image package version for the IOS image.

%SPA_FPD-3-GETVER_FAILED : [chars]: Failed to get FPD version for [chars] (ID=[dec]): [chars].

Explanation	Failed to get FPD version due to either IPC problem or operation error. The card will be disabled.
Recommended Action	Check SPA seating and SPA status. Ensure compatibility among FPD, IOS and possible SPA firmware by comparing output of command **show hw-module subslot fpd** with IOS Release Notes. Obtain IOS version by command **show version**.

%SPA_FPD-3-UPGRADE_FAILED : [chars]: Failed to upgrade FPD, [chars].

Explanation	The FPD image upgrade operation failed. This error is specific to the SPA. The cause could be a wrong image file, error in accessing fpga storage, physical interrupt such as power failure or card removal. Depending on SPA type and error cause, the card could be in an unusable status. Normally the system automatically reattempts the upgrade and shuts the card after repeated failures.
Recommended Action	Do not interrupt the system while an FPD upgrade is in progress. Obtain the matching FPD package. Refer to IOS Release Notes for more information on obtaining the correct FPD package for the SPA. Review the output of the RP FPD logs.

%SPA_FPD-3-JTAG_ERR : [chars]: Failed to program a [chars] FPD image file. Error code [hex].

Explanation	While attempting to program a SPA FPGA via JTAG bus, an error occurs. It could be caused by an outdated carrier card FPGA or SPA connection. It may also flag an internal software error.

%SPA_FPD-3-JTAG_ERR : [chars]: Failed to program a [chars] FPD image file. Error code [hex].

Recommended Action	Retry the upgrade after reseating SPA. Verify carrier card FPGA is current. Copy exact the error message and report to TAC.

%SPA_FPD-3-SW_ERROR : NULL

Explanation	This error is seen when there is a problem in internal software coding; it should not be seen under normal operation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_FPD-3-PWR_OFF_FAILED : Failed to power-off [chars] in [chars] for FPD offline upgrade within [dec] seconds.

Explanation	The power-off operation of the indicated SPA failed within the number of specified seconds. This might indicate that the time used to wait for SPA to power-off is not long enough, which can happen if the SPA has a lot of interfaces configured.
Recommended Action	Retry the upgrade operation again later. If the problem persists, remove the configuration of the SPA before trying again the upgrade operation.

%SPA_FPD-3-SMM665_CONF_WRITE_ERROR : [chars]: Failed to write new configuration into SMM665 device.

Explanation	The write operation to SMM665 is performed through C2W serial interface from SPA carrier card, the indicated failure might be caused by busy C2W serial interface.
Recommended Action	Retry the upgrade operation again later. If the problem persists, remove the configuration of the SPA before trying again the upgrade operation.

%SPA_FPD-3-ADM106X_READ_VER_ERROR : [chars]: Failed to read version info from ADM106x device - [chars]

Explanation	The read operation to ADM106x is performed through C2W serial interface from SPA carrier card, the indicated failure might be caused by busy C2W serial interface.
Recommended Action	Try to reload the SPA with **hw-module subslot *slot#/subslot#* reload** command to correct the failure. If problem persists, move the SPA to another bay of the carrier card.

%SPA_FPD-3-IHEX_PARSE_ERROR : NULL

Explanation	This error is seen when there is a problem in the format of the Intel HEX data; it should not be seen under normal operation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_FPD-3-ADM106X_EEPROM_READ_ERROR : [chars]: Failed to read the content of ADM106x [chars] EEPROM section - [chars]

Explanation	The read operation to ADM106x is performed through C2W serial interface from SPA carrier card, the indicated failure might be caused by busy C2W serial interface.
Recommended Action	Retry the same operation again later. If the problem persists, remove the configuration of the SPA before trying again the operation.

%SPA_FPD-3-ADM106X_EEPROM_WRITE_ERROR : [chars]: Failed to write new configuration into ADM106x [chars] EEPROM section - [chars]

Explanation	The write operation to ADM106x is performed through C2W serial interface from SPA carrier card, the indicated failure might be caused by busy C2W serial interface.
Recommended Action	Retry the upgrade operation again later. If the problem persists, remove the configuration of the SPA before trying again the upgrade operation.

%SPA_FPD-3-ADM106X_EEPROM_VERIFY_ERROR : [chars]: Verification of write operation failed in ADM106x [chars] EEPROM section for address [hex] - read value '[hex]', expected value '[hex]'.

Explanation	The verification of the write operation has found a mismatch on the EEPROM data. The problem might be an indication of aging effect on the device that cannot longer hold written data.
Recommended Action	Retry the upgrade operation again later. If the problem persists, replace the SPA.

%SPA_FPD-2-PWR_NO_OK : SPA POWER OK signal is not asserted for [chars] in [chars] for FPD upgrade.

Explanation	The check for SPA POWER OK signal assertion failed. This might indicate a HW problem with the SPA.
Recommended Action	Contact your Cisco technical support representative to have the SPA replaced.

SPA_GE_DWDM

%SPA_GE_DWDM-3-DWDM_ERROR : [chars]

Explanation	SPA driver detected an error in the DWDM init routine
Recommended Action	The SPA driver has detected problem with DWDM init routine. If the ports on the SPA are not operating as expected, power down and reseat the indicated SPA card. If the error messages persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a 'show tech-support' to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_GE_DWDM-3-NULL_DATA_STRUCTURE : [chars] [dec] [dec]

Explanation	The SPA driver detected NULL data during DWDM initialization
Recommended Action	Reload the SPA card and if the problem persists contact your technical support representative

%SPA_GE_DWDM-3-PLL_NOT_LOCKED : [chars] not locked after [dec] retries [hex]

Explanation	The SPA driver failed to initialize the PLL
Recommended Action	The SPA driver has detected problem with DWDM init routine. If the ports on the SPA are not operating as expected, power down and reseat the indicated SPA card. If the error messages persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml. If you still require assistance, open a case with the Technical Assistance Center via the Internet at https://mycase.cloudapps.cisco.com/case or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a 'show tech-support' to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_GE_DWDM-3-MALLOC_FAILED : [chars]

Explanation	The SPA driver detected a memory error on the SPA card
Recommended Action	Reload the card and if the problem persists, call the TAC

%SPA_GE_DWDM-3-UT2_SPA : [chars]

Explanation	The SPA driver did not detect a UT2 transponder module
Recommended Action	Check if the SPA is a DWDM SPA before executing the command

%SPA_GE_DWDM-3-SFP_DETECT : [chars]

Explanation	The SPA driver did not detect a Cu-SFP for the port
Recommended Action	Please plugin a CISCO compliant SFP in the corresponding port and retry the command

SPA_LNM

%SPA_LNM-5-ENABLED : Interface [chars], noise monitoring enabled for [chars]

Explanation	Link Noise Monitoring has been enabled on the specified T1/E1 interface
Recommended Action	This is an information message to notify that Link Noise Monitoring has been enabled on the T1/E1 link. No user action is required.

%SPA_LNM-5-DISABLED : Interface [chars], noise monitoring disabled for [chars]

Explanation	Link Noise Monitoring has been disabled on the specified T1/E1 interface
Recommended Action	This is an information message to notify that Link Noise Monitoring has been disabled on the T1/E1 link. No user action is required.

%SPA_LNM-3-MINWARNEXCEED : Interface [chars], noise exceeded above minor warning threshold

Explanation	Noise on the link has exceeded above the threshold value configured for minor warning level
Recommended Action	This link requires administrative attention

%SPA_LNM-3-MINWARNIMPROVE : Interface [chars], noise improved below minor warning threshold

Explanation	Noise on the link has improved and is below the threshold value configured for minor warning level
Recommended Action	No action required

%SPA_LNM-3-MAJWARNEXCEED : Interface [chars], noise exceeded above major warning threshold

Explanation	Noise on the link has exceeded above the threshold value configured for major warning level
Recommended Action	This link requires administrative attention

%SPA_LNM-3-MAJWARNIMPROVE : Interface [chars], noise improved below major warning threshold

Explanation	Noise on the link has improved and is below the threshold value configured for major warning level
Recommended Action	No action required

%SPA_LNM-2-REMOVE : Interface [chars] removed from bundle. Noise exceeded above remove threshold

Explanation	Noise on the link has crossed the threshold value configured for link removal. This link is taken out of the MLP bundle. This is critical status for the link. This link is under monitoring state and will be added to the bundle again when the noise level is below the configured value.
Recommended Action	This link requires administrative attention

%SPA_LNM-2-RESTORE : Interface [chars] restored to bundle. Noise improved below removal threshold

Explanation	Noise on the link has improved below the threshold value configured for link removal. This link is restored back to MLP bundle.
Recommended Action	No action required

%SPA_LNM-2-REMEXCEED : Interface [chars], noise exceeded above removal threshold

Explanation	Noise on the link has exceeded above the threshold value configured for link removal
Recommended Action	This link requires administrative attention

%SPA_LNM-2-REMIMPROVE : Interface [chars], noise improved below removal threshold

Explanation	Noise on the link has improved and is below the threshold value configured for link removal

%SPA_LNM-2-REMIMPROVE : Interface [chars], noise improved below removal threshold

Recommended Action	No Action required

%SPA_LNM-2-REMFAILED : Interface [chars], failed to remove link from bundle

Explanation	Noise on the link has exceeded above the threshold value configured for link removal. However, this link is not removed from the MLP bundle
Recommended Action	No Action required

%SPA_LNM-2-RESTOREFAILED : Interface [chars], failed to restore link to the bundle

Explanation	Noise on the link has improved and is below the threshold value configured for link removal. However, the link restore back to the MLP bundle failed
Recommended Action	No Action required

%SPA_LNM-2-REMEXCEEDLASTLINK : Interface [chars], Last link in bundle, noise exceeded above removal threshold

Explanation	Noise on the link has exceeded above the threshold value configured for link removal. However, this link is the last link in the multilink bundle and it is not removed from the service.
Recommended Action	This link requires administrative attention

%SPA_LNM-3-GENEVENT : [chars]

Explanation	An Error has occured in the link noise monitoring
Recommended Action	Copy the error message exactly as it appears and report it to your technical support representative

SPA_NGIO_ETHER_INTERNAL

%SPA_NGIO_ETHER_INTERNAL-3-SW_ERR : NULL

Explanation	The module driver detected a software error condition on the module card. This might result in improper operation.

%SPA_NGIO_ETHER_INTERNAL-3-SW_ERR : NULL

Recommended Action	The module driver has encountered a software error. Please power down and reseat the indicated module card. Copy the error message exactly as it appears and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the `show logging`, `show monitor event-log module all` and `show tech-support` commands, your troubleshooting logs, and the specific error message.

SPA_NGIO_UCSE

%SPA_NGIO_UCSE-3-NGIO_MSG_VER_MISMATCH : UCSE [chars] is using incorrect NGIO message version (expected version = [dec], current version = [dec]). Please update the software package for the module with the correct version. Unexpected behavior might occur if the issue is not addressed.

Explanation	UCSE SW is running with a software version that doesn't use the same NGIO message header version. This could happen if the wrong version of the software package for the module was installed in the system.
Recommended Action	Find the appropriate software package for the module based on the Cisco IOS software version that the system is running. Follow the installation documentation that corresponds to your software version and platform to properly install the software package and correct the problem.

%SPA_NGIO_UCSE-3-SHUTDOWN_FAILED : UCSE Module [chars] shutdown failed to be executed.

Explanation	The UCSE Module did not yet respond to the shutdown request. This is probably due to a bug.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-5-SHUTDOWN_NOT_DONE : UCSE Module [chars] shutdown was not done in a proper fashion: Reseating the module may corrupt the hard disk.

Explanation	The module was not properly shutdown before removal of the module. This could result in the corruption of the hard disk on the module.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-3-SE_RESET : UCSE Module [chars] will be reset to recover from failure ([chars]).

Explanation	The module is restarting to recover from the communication failure with host.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-3-APP_RESET : Application on UCSE Module [chars] has failed and requested a UCSE Module reset.

Explanation	The application running on the service module failed and as a result the UCSE Module will be restarted in order to recover from the communication failure with host.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-3-APP_STATUS : Application on UCSE Module [chars] is [chars]

Explanation	The Application running on the service module has changed state.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-5-SHUTDOWN_DONE : UCSE Module [chars] shutdown complete

Explanation	The shutdown of the UCSE Module was completed.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-5-SHUTDOWN_BUTTON : UCSE Module [chars] shutdown button was pressed, shutdown initiated.

Explanation	The Shutdown button on the module was pressed and shutdown initiated.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-5-NEWPASSWORD : UCSE Module [chars] password changed to '[chars]'.

Explanation	The password of the service module was changed.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-5-UNCONFIGURE_IP : UCSE Module [chars] UCSE Module ip address unconfigured.

Explanation	The UCSE Module IP address is unconfigured as interface IP address changed.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-5-RESTORE_IP : UCSE Module [chars] UCSE Module ip address restored.

Explanation	The UCSE Module IP address was restored after the system verified that the interface IP address changed. There are certain configuration requirements for the service-engine IP address and the default gateway IP address with the module interface IP address. The system has verified these requirements and restored the IP address.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-5-UNCONFIGURE_EXT_IP : UCSE Module [chars] UCSE Module ext ip address unconfigured.

Explanation	The UCSE Module external IP address is unconfigured as interface IP address changed.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-5-RESTORE_EXT_IP : UCSE Module [chars] ucse ext ip address restored.

Explanation	The UCSE Module external IP address was restored after the system verified that the interface IP address changed. There are certain configuration requirements for the UCSE Module IP address and the default gateway IP address with the module interface IP address. The system has verified these requirements and restored the external IP address.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-5-UNCONFIGURE_DEF_GW : UCSE Module [chars] UCSE ip default-gateway unconfigured.

Explanation	The UCSE Module default gateway IP is unconfigured as interface IP address changed.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-5-RESTORED_DEF_GW : UCSE Module [chars] UCSE ip default-gateway restored.

Explanation	The UCSE Module default gateway IP address was restored after the system verified that the interface IP address was changed. There are certain configuration requirements for the UCSE Module IP address and the default gateway IP address with the module interface IP address. The system has verified that the IP address for the UCSE Module IP default gateway is still on the same subnet as the UCSE Module IP address and therefore, the default-gateway configuration is restored.
Recommended Action	No action is required.

%SPA_NGIO_UCSE-4-BADPLATFORMINFO : UCSE Module [chars] platform information not received correctly.

Explanation	The platform and service module hardware information was not received correctly.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_NGIO_UCSE-2-CONFIGFAILED : UCSE Module [chars] [chars] configuration failed

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

%SPA_NGIO_UCSE-3-SW_ERR : NULL

Explanation	The module driver detected a software error condition on the module card. This might result in improper operation.
Recommended Action	The module driver has encountered a software error. Please power down and reseat the indicated module card. Copy the error message exactly as it appears and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging**, **show monitor event-log module all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

%SPA_NGIO_UCSE-3-PASSWORDRESET : UCSE Module [chars] password reset [chars][chars]

Explanation	The password reset of the service module failed or is not supported.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_NGIO_UCSE-3-SPA_CPU_ERR : [chars]: module CPU HW errors: [chars]

Explanation	An internal hardware device error has occurred on the module CPU. The error message indicates the modular card slot, the module subslot, the module type and the name of the hardware device. The module has been deactivated and reactivated to resolve the problem. If the error occurs more than five times within an hour, no further attempts to reactivate the module will be made. This message is likely due to an unrecoverable hardware failure
Recommended Action	If the module does not recover automatically, perform OIR of the module located in the specified subslot. Before removing the module, enter the **hw-module subslot stop** command. Remove the module, wait 5 seconds, and reinsert the module into the slot. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the **show tech-support** command, contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_NGIO_UCSE-3-HW_ERR : [chars]: A Hardware device error was detected by [chars], trying to recover the module by reload.

Explanation	An internal hardware device error has occurred on the module. The error message indicates the slot, the module subslot, the module type and the name of the hardware device. The module has been deactivated and reactivated to resolve the problem. If the error occurs more than five times within an hour, no further attempts to reactivate the module will be made. This message is likely due to an unrecoverable hardware failure.
Recommended Action	Perform OIR of the module located in the specified subslot. Before removing the module, enter the **hw-module subslot stop** command. Remove the module, wait 5 seconds, and reinsert the module into the slot. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the **show diag** command, contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_NGIO_UCSE-0-APP_MSG_EMER : NULL

Explanation	The application running on the service module has encountered an emergency error.
Recommended Action	UCSE_APP_MSG_STD_ACTION

%SPA_NGIO_UCSE-1-APP_MSG_ALERT : NULL

Explanation	The application running on the service module has issued an alert.
Recommended Action	UCSE_APP_MSG_STD_ACTION

%SPA_NGIO_UCSE-2-APP_MSG_CRIT : NULL

Explanation	The application running on the service module has encountered a critical error.
Recommended Action	UCSE_APP_MSG_STD_ACTION

%SPA_NGIO_UCSE-3-APP_MSG_ERR : NULL

Explanation	The application running on the service module has encountered an error.
Recommended Action	UCSE_APP_MSG_STD_ACTION

%SPA_NGIO_UCSE-4-APP_MSG_WARN : NULL

Explanation	The application running on the service module has issued a warning message.
Recommended Action	UCSE_APP_MSG_STD_ACTION

%SPA_NGIO_UCSE-5-APP_MSG_NOTICE : NULL

Explanation	The application running on the service module has issued a notice.
Recommended Action	Refer to the software application documentation for more information.

%SPA_NGIO_UCSE-6-APP_MSG_INFO : NULL

Explanation	The application running on the service module has issued a informational message.
Recommended Action	Refer to the software application documentation for more information.

%SPA_NGIO_UCSE-7-APP_MSG_DEBUG : NULL

Explanation	The application running on the service module has displayed a debug message.
Recommended Action	Refer to the software application documentation for more information.

SPA_SE1

%SPA_SE1-3-MEM_CPU_BIST_ERR : [chars]: CPU BIST failure detected, with error ([chars], error code = [hex]).

Explanation	The service SPA CPU Build-In Self Test (BIST) to check memory used by SPA ROMMON has failed. If this test fails, there is probably and issue with the DDR2 memory used by the SPA.
Recommended Action	BUTLER_MEM_ERROR_STD_ACTION

%SPA_SE1-3-MEM_INIT_ERR : [chars]: memory init failure occurred [chars], with error ([chars], error code = [hex]).

Explanation	The service SPA memory initialization procedure failed.
Recommended Action	BUTLER_MEM_ERROR_STD_ACTION

%SPA_SE1-5-NO_VALID_PARTITION : [chars]: no valid partition was found in disk drive ([chars], error code = [hex]).

Explanation	The disk driver in service SPA doesn't have valid partition.
Recommended Action	Follow the instructions on the Cisco IOS installation and configuration guide to format the disk drive to correct this problem.

%SPA_SE1-5-NO_APPL_IN_DISK : [chars]: no application image was found in disk drive.

Explanation	The disk driver in service SPA doesn't have a valid application image.
Recommended Action	No action is required.

%SPA_SE1-5-BOOTING_HELPER : [chars]: booting the helper image.

Explanation	The service SPA is booting the helper image from bootflash.
Recommended Action	No action is required.

%SPA_SE1-5-BOOTING_DEFAULT_APPL : [chars]: booting the default application image.

Explanation	The service SPA is booting the default application image from disk.
Recommended Action	No action is required.

%SPA_SE1-5-BOOTING_HOST_IMAGE : [chars]: booting application image downloaded from host.

Explanation	The service SPA is booting the default application image from disk.
Recommended Action	No action is required.

%SPA_SE1-3-SW_ERR : NULL

Explanation	The SPA driver detected a software error condition on the SPA card. This might result in improper operation.
Recommended Action	The SPA driver has encountered a software error. Power down and reseat the indicated SPA card. If the problem persists, copy the error message exactly as it appears on the console, and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN , or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging**, **show monitor event-log spa all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

%SPA_SE1-3-MAINTENANCE_MODE : Service engine [chars] has been booted in maintenance mode. This is an engineering use only mode and some or all of the SPA functions could be disabled.

Explanation	The SPA was booted with **test hw-module subslot *subslot#* maintenance-mode enable** configured. Disable this mode and reload the SPA for normal SPA operation
Recommended Action	No action is required.

%SPA_SE1-3-ROMMON_BOOT_ERR : [chars]: ROMMON boot error detected [chars] - [chars]

Explanation	Service SPA ROMMON error was detected during booting of the SPA. The system will attempt to reload the SPA to recover from the failure.
Recommended Action	BUTLER_ROMMON_ERROR_STD_ACTION

%SPA_SE1-3-HELPER_BOOT_ERR : [chars]: Helper image boot error detected ([chars], error code = [hex]).

Explanation	Service SPA helper image error was detected during booting of the SPA.
Recommended Action	No action is required.

%SPA_SE1-3-APPL_BOOT_ERR : [chars]: Application boot error detected [chars], with error ([chars], error code = [hex]).

Explanation	Service SPA application error was detected during booting of the SPA.
Recommended Action	BUTLER_APPBOOT_ERROR_STD_ACTION

%SPA_SE1-3-DEFAULT_APPL_BOOT_TIMEOUT : [chars]: Timeout booting the default application image, will attempt to boot the helper image.

Explanation	Initialization of service SPA timed out during booting of the default application image, the system will attempt to recover from the failure by trying to boot the helper image.
Recommended Action	No action is required.

%SPA_SE1-3-APPL_BOOT_TIMEOUT : [chars]: Timeout booting application image.

Explanation	Initialization of service SPA timed out during booting of the sipspawmak9 sub-package. The system will attempt to reload the SPA to recover from the failure.
Recommended Action	BUTLER_APPBOOT_ERROR_STD_ACTION

%SPA_SE1-3-ROMMON_BOOT_TIMEOUT : [chars]: Timeout booting ROMMON image in [chars] state [chars] - [chars]

Explanation	Initialization of service SPA timed out during booting of the ROMMON image, the system will now attempt to reload the SPA to recover from the failure.
Recommended Action	BUTLER_ROMMON_ERROR_STD_ACTION

%SPA_SE1-3-ROMMON_SPI4SYNC_TIMEOUT : [chars]: Timeout getting SPI4 sync from ROMMON

Explanation	Initialization of the service SPA timed out after failing to get SPI4 sync. The system will attempt to reload the SPA to recover from the failure.
Recommended Action	BUTLER_ROMMON_ERROR_STD_ACTION

%SPA_SE1-3-ROMMON_IMG_RECOVER : [chars]: ROMMON boot failed, recovering ROMMON image with backup copy.

Explanation	A service SPA ROMMON error was detected during booting of the SPA. An attempt to re-program the ROMMON image will be performed to recover from this failure. This problem could have been caused by a previous interruption of the ROMMON FPD upgrade operation.
Recommended Action	No action is required.

%SPA_SE1-3-BOOTFLASH_DEBUG_MODE : Service engine [chars] has been booted in bootflash debug mode. This is an engineering use only mode and some or all of the SPA functions could be disabled.

Explanation	The SPA was booted with `test hw-module subslot bay_num bootflash debug enable` configured. Disable this mode and reload the SPA for normal SPA operation.
Recommended Action	No action is required.

%SPA_SE1-3-CHECKING_DISK : [chars]: Disk is being checked because of previous unclean shutdown of the SPA or mount count limit reached. Boot time will take longer because of this operation (e.g. 5 to 7 minute for a 250GB disk). Please do not remove the SPA when this operation is being performed.

Explanation	Checking of the disk file system is being performed to correct any error due to unclean shutdown of the SPA. Make sure that the SPA is properly shutdown before removing it from the system to prevent file system corruption.
Recommended Action	No action is required.

%SPA_SE1-3-DISK_CHECKING_TIMEOUT : [chars]: Timeout checking the disk after more than [dec] seconds. Another attempt to check the disk will be done after the SPA reload.

Explanation	The disk checking operation has not completed in the expected time frame. To recover from possible disk checking failure, the SPA will be reloaded to allow a retry of the disk checking operation.
Recommended Action	BUTLER_DISK_FS_ERROR_STD_ACTION

%SPA_SE1-3-SKIPPED_DISK_MOUNT : [chars]: Disk mounting operation has been skipped for manual disk repair operation. Please follow the procedures on hardware configuration guide on how to enter into service engine console to continue with the disk repair operation.

Explanation	The SPA was configured to not mount the disk after a reload operation. This is the initial step to prepare the SPA for manual disk repair operation.

%SPA_SE1-3-SKIPPED_DISK_MOUNT : [chars]: Disk mounting operation has been skipped for manual disk repair operation. Please follow the procedures on hardware configuration guide on how to enter into service engine console to continue with the disk repair operation.

Recommended Action	No action is required.

%SPA_SE1-3-DISK_NOT_PRESENT : [chars]: Cannot detect the presence of disk drive on the SPA. Please check for loose cable connection to the drive. The SPA will continue operating without the disk.

Explanation	The disk was not detected by the SPA during bootup, and this will prevent the SPA from operating under normal conditions. The ability to store error logging on the disk will not be available and any debugging information will be lost after a SPA reload. Performance of the SPA might also get affected because of reduced memory storage.
Recommended Action	BUTLER_DISK_STATE_ERROR_STD_ACTION

%SPA_SE1-3-DISK_UNKNOWN_STATE : [chars]: The disk drive on the SPA is in a unknown operational state. Check for a loose cable connection to the drive. The SPA will continue operating without the disk.

Explanation	The disk was in an unknown operational state during SPA bootup, and this will prevent the SPA from operating under normal conditions. The ability to store error logging on the disk will not be available and any debugging information will be lost after a SPA reload. Performance of the SPA might also get affected because of the reduced memory storage.
Recommended Action	BUTLER_DISK_STATE_ERROR_STD_ACTION

%SPA_SE1-3-DISK_UNFORMATTED : [chars]: The disk drive on the SPA it is not formatted. The SPA cannot use an unformatted disk. Please follow instructions in the Cisco IOS installation and configuration guide to perform the manual format operation. The SPA will continue operating without the disk.

Explanation	The disk was not formatted, and this will prevent the SPA from operating under normal conditions. The ability to store error logging on the disk will not be available and any debugging information will be lost after a SPA reload. Performance of the SPA might also get affected because of the reduced memory storage.
Recommended Action	Follow the instructions on the Cisco IOS installation and configuration guide to format the disk drive to correct this problem.

%SPA_SE1-3-DISK_CHECK_ERROR : [chars]: Disk file system check error detected, manual execution of disk checking operation will be required to correct this problem. The SPA will continue operating with reduced disk space.

Explanation	An error was detected during automatic checking operation of disk file system integrity. The affected disk partition won't be mounted, and this will prevent the SPA from operating under normal conditions. The ability to store error logging on the disk might not be available and any debugging information could be lost after a SPA reload. Performance of the SPA might also get affected because of the reduced memory storage.
Recommended Action	BUTLER_DISK_FS_ERROR_STD_ACTION

%SPA_SE1-3-DISK_MOUNT_ERROR : [chars]: Disk mount error detected, manual execution of disk checking operation might be required to correct this problem. The SPA will continue operating with reduced disk space.

Explanation	Error were detected during mounting operation of disk partition. The affected disk partition won't be mounted, this will prevent the SPA from operating at normal condition. Capability to store error logging on the disk might not be available and any debugging information could be lost after SPA reload. Performance of the SPA might also get affected because of the reduced memory storage.
Recommended Action	BUTLER_DISK_FS_ERROR_STD_ACTION

%SPA_SE1-3-CHECK_SPA_CONNECTOR : [chars]: SPI4 error was detected during bootup, automatic reload operation will be attempted for recovering the SPA. Please make sure that the SPA is secured properly in the SIP slot.

Explanation	SPI4 error has occurred during SPA bootup. The SPA has been deactivated and reactivated to resolve the problem. If the error occurs more than five times within an hour, no further attempts to reactivate the SPA will be made. This message is likely due to bad connection of the SPA connector with the SIP slot.
Recommended Action	Pull out and reinsert the SPA to make secure connection with the SIP slot. Before removing the SPA, make sure to stop the SPA by entering the **hw-module subslot slot#/ subslot# stop** command. Remove the SPA, wait 5 seconds, and reinsert the SPA into the SIP. If the problem persists, check for physical damage in the connector of both SPA and SIP. If no damage is visible, then copy the error message exactly as it appears and gather the output from the **show hw-module subslot bay_num tech-support** command from the SIP console, then contact your Cisco technical support representative with the gathered information.

%SPA_SE1-3-SYSINIT_FAILURE : [chars]: System init failure was detected during bootup - [chars]. SPA will be disabled because of this failure.

Explanation	A failure was detected during system bootup of the SPA. The SPA has been deactivated because of the problem.

%SPA_SE1-3-SYSINIT_FAILURE : [chars]: System init failure was detected during bootup - [chars]. SPA will be disabled because of this failure.

Recommended Action	Copy the error message exactly as it appears on the console, and gather the output from the **show hw-module subslot** *bay_num* **tech-support** command from the SIP console. Contact your Cisco technical support representative with the gathered information.

SPA_SRVCS_ENGINE

%SPA_SRVCS_ENGINE-3-RBCP_MSG_VER_MISMATCH : Service Engine [chars] is using incorrect RBCP message version (expected version = [dec], current version = [dec]). Please update the software package for the SPA with the correct version. Unexpected behavior might occur if the issue is not addressed.

Explanation	The service engine is running with a software version that doesn't use the same RBCP message header version. This could happen if the wrong version of the software package for the SPA was installed in the system.
Recommended Action	Find the appropriate software package for the SPA based on the Cisco IOS software version that the system is running. Follow the installation documentation that corresponds to your software version and platform to properly install the software package and correct the problem.

%SPA_SRVCS_ENGINE-3-SHUTDOWN_FAILED : Service Engine [chars] shutdown failed to be executed.

Explanation	The service engine did not yet respond to the shutdown request. This is probably due to a bug.
Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-5-SHUTDOWN_NOT_DONE : Service Engine [chars] shutdown was not done in a proper fashion: Reseating the SPA may corrupt the hard disk.

Explanation	The SPA was not properly shutdown before removal of the SPA. This could result in the corruption of the hard disk on the SPA.
Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-3-SE_RESET : Service engine [chars] will be reset to recover from failure ([chars]).

Explanation	The service SPA is restarting to recover from the communication failure with host.
Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-3-APP_RESET : Application on service engine [chars] has failed and requested a service engine reset.

Explanation	The application running on the service SPA failed and as a result the service engine will be restarted in order to recover from the communication failure with host.
Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-3-APP_STATUS : Application on service engine [chars] is [chars]

Explanation	The Application running on the service SPA has changed state.
Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-5-SHUTDOWN_DONE : Service engine [chars] shutdown complete

Explanation	The shutdown of the service engine was completed.
Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-5-SHUTDOWN_BUTTON : Service engine [chars] shutdown button was pressed, shutdown initiated.

Explanation	The Shutdown button on the SPA was pressed and shutdown initiated.
Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-5-NEWPASSWORD : Service Engine [chars] password changed to '[chars]'.

Explanation	The password of the service SPA was changed.
Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-5-UNCONFIGURE_IP : Service Engine [chars] service-engine ip address unconfigured.

Explanation	The service-engine IP address is unconfigured as interface IP address changed.
Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-5-RESTORE_IP : Service Engine [chars] service-engine ip address restored.

Explanation	The service-engine IP address was restored after the system verified that the interface IP address changed. There are certain configuration requirements for the service-engine IP address and the default gateway IP address with the SPA interface IP address. The system has verified these requirements and restored the IP address.
Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-5-UNCONFIGURE_EXT_IP : Service Engine [chars] service-engine ext ip address unconfigured.

Explanation	The service-engine external IP address is unconfigured as interface IP address changed.
Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-5-RESTORE_EXT_IP : Service Engine [chars] service-engine ext ip address restored.

Explanation	The service-engine external IP address was restored after the system verified that the interface IP address changed. There are certain configuration requirements for the service-engine IP address and the default gateway IP address with the SPA interface IP address. The system has verified these requirements and restored the external IP address.
Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-5-UNCONFIGURE_DEF_GW : Service Engine [chars] service-engine ip default-gateway unconfigured.

Explanation	The service-engine default gateway IP is unconfigured as interface IP address changed.
Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-5-RESTORED_DEF_GW : Service Engine [chars] service-engine ip default-gateway restored.

Explanation	The service-engine default gateway IP address was restored after the system verified that the interface IP address was changed. There are certain configuration requirements for the service-engine IP address and the default gateway IP address with the SPA interface IP address. The system has verified that the IP address for the service-engine IP default gateway is still on the same subnet as the service-engine IP address and therefore, the default-gateway configuration is restored.

%SPA_SRVCS_ENGINE-5-RESTORED_DEF_GW : Service Engine [chars] service-engine ip default-gateway restored.

Recommended Action	No action is required.

%SPA_SRVCS_ENGINE-4-BADPLATFORMINFO : Service Engine [chars] platform information not received correctly.

Explanation	The platform and service SPA hardware information was not received correctly.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_SRVCS_ENGINE-2-CONFIGFAILED : Service Engine [chars] [chars] configuration failed

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

%SPA_SRVCS_ENGINE-3-SW_ERR : NULL

Explanation	The SPA driver detected a software error condition on the SPA card. This might result in improper operation.
Recommended Action	The SPA driver has encountered a software error. Please power down and reseat the indicated SPA card. Copy the error message exactly as it appears and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging**, **show monitor event-log spa all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

%SPA_SRVCS_ENGINE-3-PASSWORDRESET : Service Engine [chars] password reset [chars][chars]

Explanation	The password reset of the service SPA failed or is not supported.

%SPA_SRVCS_ENGINE-3-PASSWORDRESET : Service Engine [chars] password reset [chars][chars]

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

%SPA_SRVCS_ENGINE-3-SPA_CPU_ERR : [chars]: SPA CPU HW errors: [chars]

Explanation	An internal hardware device error has occurred on the Services SPA CPU. The error message indicates the modular services card slot, the SPA subslot, the SPA type and the name of the hardware device. The SPA has been deactivated and reactivated to resolve the problem. If the error occurs more than five times within an hour, no further attempts to reactivate the SPA will be made. This message is likely due to an unrecoverable hardware failure
Recommended Action	If the SPA does not recover automatically, perform OIR of the SPA located in the specified subslot. Before removing the SPA, enter the **hw-module subslot stop** command. Remove the SPA, wait 5 seconds, and reinsert the SPA into the SIP. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the **show tech-support** command, contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_SRVCS_ENGINE-3-HW_ERR : [chars]: A Hardware device error was detected by [chars], trying to recover the SPA by reload.

Explanation	An internal hardware device error has occurred on the services SPA. The error message indicates the SIP slot, the SPA subslot, the SPA type and the name of the hardware device. The SPA has been deactivated and reactivated to resolve the problem. If the error occurs more than five times within an hour, no further attempts to reactivate the SPA will be made. This message is likely due to an unrecoverable hardware failure.
Recommended Action	Perform OIR of the SPA located in the specified subslot. Before removing the SPA, enter the **hw-module subslot stop** command. Remove the SPA, wait 5 seconds, and reinsert the SPA into the SIP. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the **show diag** command, contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_SRVCS_ENGINE-0-APP_MSG_EMER : NULL

Explanation	The application running on the service SPA has encountered an emergency error.

%SPA_SRVCS_ENGINE-0-APP_MSG_EMER : NULL

Recommended Action	Refer to the software application documentation for more information. If the problem persists, copy the error message exactly as it appears on the console, and gather the output from the **show hw-module subslot** *bay_num* **tech-support** command from the SIP console, and the output of **show tech-support** command from service engine Vegas shell console. Contact your Cisco technical support representative with the gathered information.

%SPA_SRVCS_ENGINE-1-APP_MSG_ALERT : NULL

Explanation	The application running on the service SPA has issued an alert.
Recommended Action	Refer to the software application documentation for more information. If the problem persists, copy the error message exactly as it appears on the console, and gather the output from the **show hw-module subslot** *bay_num* **tech-support** command from the SIP console, and the output of **show tech-support** command from service engine Vegas shell console. Contact your Cisco technical support representative with the gathered information.

%SPA_SRVCS_ENGINE-2-APP_MSG_CRIT : NULL

Explanation	The application running on the service SPA has encountered a critical error.
Recommended Action	Refer to the software application documentation for more information. If the problem persists, copy the error message exactly as it appears on the console, and gather the output from the **show hw-module subslot** *bay_num* **tech-support** command from the SIP console, and the output of **show tech-support** command from service engine Vegas shell console. Contact your Cisco technical support representative with the gathered information.

%SPA_SRVCS_ENGINE-3-APP_MSG_ERR : NULL

Explanation	The application running on the service SPA has encountered an error.
Recommended Action	Refer to the software application documentation for more information. If the problem persists, copy the error message exactly as it appears on the console, and gather the output from the **show hw-module subslot** *bay_num* **tech-support** command from the SIP console, and the output of **show tech-support** command from service engine Vegas shell console. Contact your Cisco technical support representative with the gathered information.

%SPA_SRVCS_ENGINE-4-APP_MSG_WARN : NULL

Explanation	The application running on the service SPA has issued a warning message.

%SPA_SRVCS_ENGINE-4-APP_MSG_WARN : NULL

Recommended Action	Refer to the software application documentation for more information. If the problem persists, copy the error message exactly as it appears on the console, and gather the output from the **show hw-module subslot** *bay_num* **tech-support** command from the SIP console, and the output of **show tech-support** command from service engine Vegas shell console. Contact your Cisco technical support representative with the gathered information.

%SPA_SRVCS_ENGINE-5-APP_MSG_NOTICE : NULL

Explanation	The application running on the service SPA has issued a notice.
Recommended Action	Refer to the software application documentation for more information.

%SPA_SRVCS_ENGINE-6-APP_MSG_INFO : NULL

Explanation	The application running on the service SPA has issued a informational message.
Recommended Action	Refer to the software application documentation for more information.

%SPA_SRVCS_ENGINE-7-APP_MSG_DEBUG : NULL

Explanation	The application running on the service SPA has displayed a debug message.
Recommended Action	Refer to the software application documentation for more information.

SPA_SRVCS_IF

%SPA_SRVCS_IF-3-SRVCS_IF_SW_ERR : NULL

Explanation	The SPA driver detected a software error condition on the SPA card. This might result in improper operation.
Recommended Action	The SPA driver has encountered a software error. Power down and reseat the indicated SPA card. If the problem persists, copy the error message exactly as it appears in the console and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN , or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging**, **show monitor event-log spa all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

SPA_T3E3

%SPA_T3E3-5-BERT : Interface [chars], BERT [chars]

Explanation	The spa t3e3 driver processed a BERT task.
Recommended Action	None, this is just a notification upon completion of a BERT task.

%SPA_T3E3-5-DEF_SUBRATE : [chars] [chars]

Explanation	Remote subrate configuration changed
Recommended Action	Inform the network operator that subrate configuration changed by remote end

%SPA_T3E3-3-MSGERR : Illegal message type [dec] received for Interface [chars]

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

%SPA_T3E3-3-NO_SSB : [chars]: Failed to get serial subblock.

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

%SPA_T3E3-3-SSBINIT : [chars]: Fail to initialize serial IDB

Explanation	Most common reason is lack of system memory. Earlier messages might indicate memory allocation failures.

%SPA_T3E3-3-SSBINIT : [chars]: Fail to initialize serial IDB

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

%SPA_T3E3-3-LOVEFAIL : [chars]: failed to send [chars] love letter

Explanation	A love letter (status or configuration message) could not be sent.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the show tech-support command to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_T3E3-5-MSG_QUEUE_ERR : [chars]: T3E3 process message queue not initialized.

Explanation	The T3E3 process message queue is not ready.
Recommended Action	Copy the error message exactly as it appears, collect the output of 'show tech-support' command immediately, and report it to your technical support representative.

%SPA_T3E3-5-MSG_ENQUEUE_ERR : [chars]: Unable to enqueue message to T3E3 SPA process

Explanation	The T3E3 SPA process message queue is full.
Recommended Action	Copy the error message exactly as it appears, collect the output of 'show tech-support' command immediately, and report it to your technical support representative.

%SPA_T3E3-5-MSG_UNEXPECTED_ERR : [chars]: Unexpected SPA message [dec].

Explanation	SPA has been removed, but still there are outstanding events.
Recommended Action	If the CPU utilization is high, try to reduce the CPU utilization

%SPA_T3E3-4-SUBRATE_FPGA_LOAD_FAILED : [chars] Programming [chars] subrate FPGA failed. The FPGA image is corrupted. One upgrade attempt is made.

Explanation	The indicated subrate FPGA image is corrupted and programming of FPGA failed. One upgrade attempt will be made to recover from the failure.
Recommended Action	Automatically upgrade the subrate FPGA image uses default FPD Image Package. The package should match the running Cisco IOS release. This can be verified by the use of `show upgrade fpd package default` command. If subrate FPGA failure persists after upgrade, SPA is disabled. Ensure the package file is intact.

%SPA_T3E3-3-SUBRATE_FPGA_LOAD_FAILED2 : [chars] Programming [chars] subrate FPGA failed. The FPGA image is corrupted. FPD upgrade has been attempted. SPA is shut.

Explanation	The indicated subrate FPGA image is corrupted even after FPD upgrade. The SPA is disabled until this problem is corrected.
Recommended Action	Verify the correctness of the FPD Image Package. Note that the FPD Image Package used in the upgrade should match the running Cisco IOS release. This can be verified by the use of `show upgrade fpd package default` command.

SPA_UCSE_IF

%SPA_UCSE_IF-3-UCSE_IF_SW_ERR : NULL

Explanation	The module driver detected a software error condition on the module card. This might result in improper operation.
Recommended Action	The module driver has encountered a software error. Power down and reseat the indicated module card. If the problem persists, copy the error message exactly as it appears in the console and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN , or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the `show logging`, `show monitor event-trace spa all` and `show tech-support` commands, your troubleshooting logs, and the specific error message.

SRP through STACKMGR

- SSLVPN

- SSLVPNMGR

- SSLVPN_PROXY

- SSSMGR

- STACKMGR

SRP

%SRP-4-RAC_ALARM : [chars] Side %c [chars]

Explanation	A physical error condition detected at the indicated RAC
Recommended Action	Diagnose and repair the physical error

%SRP-4-ALARM : [chars] Side %c [chars]

Explanation	A physical line error condition exists on the indicated network
Recommended Action	Diagnose and repair the physical error

%SRP-3-NULL_P_ALARM : Dereferencing NULL pointer [chars] in [chars]

Explanation	NULL pointer error condition exists. Some features/commands may not work properly
Recommended Action	Please Contact Cisco Systems TAC support

%SRP-3-FALSE_VAL_ALARM : [chars] - error in [chars]

Explanation	FALSE value returned. Some features/commands may not work properly
Recommended Action	Please Contact Cisco Systems TAC support

%SRP-3-DUP_MAC_ADDR : [chars] : Duplicate mac addresses in topology

Explanation	The topology contains 1 or more duplicate mac addresses
Recommended Action	Identify duplicate address and correct configuration.

%SRP-3-SINGLE_NODE_TOPO : [chars] : Single node in topology

Explanation	The topology discovery resulted in a single node being found
Recommended Action	This can be due to duplicated mac addresses. Identify mac address of interface and ensure it is not duplicated on other nodes. If the node is in loopback, disregard this message.

%SRP-3-RING_ID_ERROR : [chars] : Rx side [chars], Tx side of fiber originates on side [chars]

Explanation	The fiber on the specified side is remotely connected to the wrong side
Recommended Action	Verify that each side A is connected to side B and each side B is connected to side A.

%SRP-4-WRAP_STATE_CHANGE : [chars] [chars] on side %c ([chars])

Explanation	The specified side of the interface is wrapped or unwrapped.
Recommended Action	Diagnose the cause of the wrap.

%SRP-4-SRR_STATE_CHANGE : [chars] SRR usage changed ([chars])

Explanation	SRR ring usage is changed using Inner, Outer or Both rings.
Recommended Action	Diagnose the cause of the ring usage change.

%SRP-4-SRR_VER_MISSMATCH : [chars] SRR version missmatch detected.

Explanation	Different SRR version received from other nodes.
Recommended Action	Update the IOS image on all nodes of the ring to the same SRR version

%SRP-1-WRAPPING_PROCESS_LOCKED : [chars] The wrap/unwrap state-change process is locked

Explanation	A wrap/unwrap state change process has not come to an end on time.
Recommended Action	If message is periodic, issue a shut and no shut on the interface.

SRPMIB

%SRPMIB-3-NULL_P_ALARM : Dereferencing NULL pointer [chars] in [chars]

Explanation	NULL pointer error condition exists. Some feature/command may not work properly
Recommended Action	Please Contact Cisco Systems TAC support

%SRPMIB-3-FALSE_VAL_ALARM : [chars] - error in [chars]

Explanation	FALSE value returned. Some features/commands may not work properly
Recommended Action	Please Contact Cisco Systems TAC support

SRW

%SRW-7-SRW_ERROR : [chars]: [hex] [hex] [dec] [dec] [dec] [dec] [hex]

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

%SRW-7-SRW_ERROR2 : [chars]: [hex] [hex] [dec] [dec] [dec] [dec] [hex] [hex] [hex] [hex] [dec]

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

%SRW-7-SRW_ERROR3 : [chars]: [hex] [hex] [dec] [dec] [dec] [dec] [hex] [hex] [hex] [dec] [hex] [dec]

Explanation	An internal software error occurred.

%SRW-7-SRW_ERROR3 : [chars]: [hex] [hex] [dec] [dec] [dec] [dec] [hex] [hex] [hex] [dec] [hex] [dec]

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

%SRW-7-BAD_SRW_DATA : Bad SRW data ([hex])

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

%SRW-7-BAD_SRW_MAGIC : Bad SRW magic [hex] @ [hex]

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

SSL

%SSL-3-SSL_REC_HDR_BUF_OVERFLOW : QFP SSL record header buffer overflow

Explanation	Cisco internal software error. QFP SSL record processing detected header buffer overflow condition. The SSL connection 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.

%SSL-3-SSL_STUB : QFP SSL ([chars]) feature executes stub entry in [chars] direction

Explanation	Cisco internal software error. QFP SSL feature stub entry got executed. The packet will be 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.

SSLMGR

%SSLMGR-0-ASYMMETRIC_KEY_FAIL : Asymmetric key failure: [chars].

Explanation	Asymmetric key failure.
Recommended Action	No action required - forwarding processor (ESP) rebooted automatically.

%SSLMGR-0-SYMMETRIC_KEY_FAIL : Symmetric key failure: [chars].

Explanation	Symmetric key failure.
Recommended Action	No action required - forwarding processor (ESP) rebooted automatically.

%SSLMGR-3-N2_CONTEXT_FAIL : Context failure: [chars].

Explanation	Coprocessor context operation failed due to resource limit
Recommended Action	Monitoring required

%SSLMGR-0-N2_VSERVER_FAIL : Virtual server context failure: [chars].

Explanation	Cryptographic coprocessor critical operation failed. Further data processing on ESP is halted
Recommended Action	forwarding processor (ESP) is rebooted automatically. no action needed

SSLVPN

%SSLVPN-6-RADIUS_ATTRIBUTE_TOO_LONG : Attribute length [dec] is longer than buffer size [dec]

Explanation	This message indicates that the attribute configured on the Radius server is longer than the allocated buffer size and will be ignored.
Recommended Action	Reconfigure the radius attribute with the appropriate length

---

%SSLVPN-6-INVALID_RADIUS_CONFIGURATION : Radius configured [chars] [chars] does not exist

Explanation	This message indicates that the name configured on the Radius server, does not match any of the configured names on the gateway *//* "This message indicates that the HTTP Authentication method configured " *//* "on the server for the url, is not supported by the gateway"); *//* msgdef_recommended_action(*//* "Check the server configuration and reconfigure it"); */
Recommended Action	Check the gateway configuration and reconfigure the radius server *//* "Check the server configuration and reconfigure it"); */

%SSLVPN-6-UNSUPPORTED_HTTPAUTH_METHOD : Unsupported HTTP Authentication method configured for url [chars]://[chars][chars] being accessed by user [chars] in context [chars]

Explanation	msgdef (UNSUPPORTED_HTTPAUTH_METHOD, SSLVPN, LOG_INFO, 0 , Unsupported HTTP Authentication method configured for url %s://%s%s being accessed by user %s in context %s This message indicates that the HTTP Authentication method configured on the server for the url, is not supported by the gateway
Recommended Action	msgdef (UNSUPPORTED_HTTPAUTH_METHOD, SSLVPN, LOG_INFO, 0 , Unsupported HTTP Authentication method configured for url %s://%s%s being accessed by user %s in context %s Check the server configuration and reconfigure it

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%SSLVPN-6-UNSUPPORTED_BASIC_HTTP_METHOD : Unsupported Basic HTTP method configured for url [chars]://[chars][chars] being accessed by user [chars] in context [chars]

Explanation	This message indicates that the Basic HTTP method configured on the server for the url, is not supported by the gateway
Recommended Action	Check the server configuration and reconfigure it

---

%SSLVPN-6-HTTPAUTH_NTLM_NEGO_ERROR : NTLM Negotiation error while doing HTTP authentication for url [chars]://[chars][chars] being accessed by user [chars] in context [chars]

Explanation	This message indicates that a NTLM negotiation error occurred while doing the HTTP authentciaton with the the server for the url

%SSLVPN-6-HTTPAUTH_NTLM_NEGO_ERROR : NTLM Negotiation error while doing HTTP authentication for url [chars]://[chars][chars] being accessed by user [chars] in context [chars]

Recommended Action	Check the server configuration and reconfigure it

%SSLVPN-6-OVERSIZE_NTLM_TYPE3_CREDENTIALS : NTLM Type3 credentials size is larger than supported for url [chars]://[chars][chars] being accessed by user [chars] in context [chars]

Explanation	This message indicates that the NTLM Type3 credentials size for the url, is larger than what is supported on the gateway
Recommended Action	Check the server configuration and reconfigure it

%SSLVPN-6-HTTP_KEEPALIVE_DISABLED : HTTP Keepalive is disabled on the server for url [chars]://[chars][chars] being accessed by user [chars] in context [chars]

Explanation	This message indicates that the HTTP Keepalive is disabled on the server for the url.
Recommended Action	Check the server configuration and reconfigure it

%SSLVPN-3-CERT_GEN_FAILED : Generation of self-signed certificate failed for Gateway [chars]

Explanation	This message indicates that generation of self-signed certificate failed
Recommended Action	Check the server configuration and reconfigure it

%SSLVPN-6-CONTEXT_MAX_USERS_LOGIN_DENIED : Login denied for user [chars] ; Max users exceeded for profile [chars]

Explanation	This message indicates that the user was denied to login because the the max users for the profile has been exceeded
Recommended Action	Check the gateway configuration and reconfigure the maximum allowed users in the profile

%SSLVPN-6-CONTEXT_OUT_OF_SERVICE : Failed to apply configuration on vaccess ; Context [chars] is made out of service ; [chars]

Explanation	This message indicates that applying configuration on vaccess failed. This is caused if the configuration is not valid while doing inservice.
Recommended Action	Check the configuration before doing inservice of the context.

%SSLVPN-6-GLOBAL_MAX_USERS_LOGIN_DENIED : Login denied for user [chars] ; Global max users limit reached

Explanation	This message indicates that the user was denied to login because the the max users limit reached
Recommended Action	To support more users, more sslvpn gateways need to be installed

%SSLVPN-6-WEBVPN_TUNNEL_USER_LOGOUT : User: [chars] has logged out from gateway [chars] context [chars]

Explanation	A Tunneling user has logged out from the given gateway/context
Recommended Action	The information is used to track user logout events. No action is required.

%SSLVPN-5-UPDOWN : sslvpn [chars] : [chars] changed state to [chars]

Explanation	sslvpn service state changed.
Recommended Action	No action is required.

%SSLVPN-5-SSLVPNMGR_ERROR : [chars] [chars]

Explanation	SSLVPN Manager error.
Recommended Action	No action is required.

%SSLVPN-6-WEBVPN_APP_ACL_URL : The request(scheme: [chars], host : [chars], port : [dec], path : [chars]) from user [chars] is [chars] by ACL

Explanation	A request is matched with application ACL.
Recommended Action	No action is required.

%SSLVPN-6-WEBVPN_APP_ACL_NET : The request(source ip: [IP_address], destion ip : [IP_address]) from user [chars] is [chars] by ACL

Explanation	A request is matched with network ACL.
Recommended Action	No action is required.

%SSLVPN-6-WEBVPN_SSO_AUTH_SUCCESS : Single Sign On session successfully established for user: [chars] in context [chars]

Explanation	This message indicates that a Single Sign On session was established for the user
Recommended Action	The information is used to track Single Sign On events. No action is required.

%SSLVPN-6-WEBVPN_SSO_AUTH_REJECT : Single Sign On session establishment failed for user: [chars] in context [chars]

Explanation	This message indicates that a Single Sign On session failed for the user
Recommended Action	The information is used to track Single Sign On events. No action is required.

%SSLVPN-6-WEBVPN_SSO_SESSION_FAIL : Single Sign On session creation failed for user: [chars] in context [chars]

Explanation	This message indicates that a Single Sign On session creation failed for the user. Session creation can fail for various reasons such as DNS lookup failure, timeouts and retry attempts exceeded
Recommended Action	The information is used to track Single Sign On events. No action is required.

%SSLVPN-5-LOGIN_AUTH_PASSED : vw_ctx: [chars] vw_gw: [chars] remote_ip: [IP_address] user_name: [chars], Authentication successful, user logged in

Explanation	This message indicates that login authentication succeeded for user
Recommended Action	No action is required.

%SSLVPN-5-LOGIN_AUTH_FAILED : vw_ctx: [chars] vw_gw: [chars] remote_ip: [IP_address] user_name: [chars], Failed to contact authentication server

Explanation	This message is seen when the authentication server is unavailable because it is down or unreachable
Recommended Action	Verify if routes are configured correctly to reach authentication and the server is configured correctly

%SSLVPN-5-LOGIN_AUTH_REJECTED : vw_ctx: [chars] vw_gw: [chars] remote_ip: [IP_address] user_name: [chars], Failed to authenticate user credentials

Explanation	This message indicates that authentication server failed to validate credentials provided by the user to login under webvpn context
Recommended Action	Check username and password configured on authentication server

%SSLVPN-5-SESSION_TERMINATE : vw_ctx: [chars] vw_gw: [chars] remote_ip: [IP_address] user_name: [chars] reason: [chars]

Explanation	This message indicates that user session is terminated due to reason indicated
Recommended Action	No action is required.

%SSLVPN-5-SSL_TLS_ERROR : vw_ctx: [chars] vw_gw: [chars] i_vrf: [dec] f_vrf: [dec] status: SSL/TLS connection error with remote at [IP_address]:[dec]

Explanation	This message indicates that SSL/TLS connection has encountered error this normally means that either handshake failed or protocol error occured during life-time of the connection
Recommended Action	Check certificate and trustpoint configuration in global config mode as well as under webvpn gateway

%SSLVPN-5-SSL_TLS_CONNECT_OK : vw_ctx: [chars] vw_gw: [chars] i_vrf: [dec] f_vrf: [dec] status: SSL/TLS connection successful with remote at [IP_address]:[dec]

Explanation	This message indicates that SSL/TLS handshake with peer was successful
Recommended Action	No action is required.

%SSLVPN-5-HTTP_REQUEST_NOT_AUTHORIZED : vw_ctx: [chars] vw_gw: [chars] remote_ip: [IP_address] status: HTTP request without login cookie resource: [chars]

Explanation	This message indicates that HTTP request doesn't have valid login cookie and is not authorized to access the resource
Recommended Action	No action is required.

%SSLVPN-1-LICENSE_EXPIRED : IOS SSLVPN evaluation license has expired

Explanation	IOS SSLVPN evaluation license has expired and a new license needs to be obtained. Existing user sessions will continue till they are closed and no new sessions will be allowed.
Recommended Action	Please visit http://www.cisco.com/go/sslvpn for instructions on how to obtain a IOS SSLVPN license

%SSLVPN-6-LICENSE_NO_FREE_COUNT : All avaiable SSLVPN session licenses are in use

Explanation	All SSLVPN sessions avaialable per current license are in use. Hence, no additional user sessions can be allowed.
Recommended Action	To support more users, additional license needs to be purchased. Please visit http://www.cisco.com/go/sslvpn for instructions on how to obtain a IOS SSLVPN license

%SSLVPN-4-LICENSE_COUNT_EXCEEDS_MAX_LIMIT : License count of currently installed license exceeds the maximum supported sessions on this platform

Explanation	License count of currently installed license exceeds the maximum supported sessions on this platform. Excess count will not be utilized.
Recommended Action	Please collect the output of show license detail command and contact your technical support representative.

%SSLVPN-3-LICENSE_NO_LICENSE : No valid license is available to use IOS SSLVPN service

Explanation	IOS SSLVPN service is a licensed feature on this platform. It will not be functional until a valid license is installed.
Recommended Action	Please visit http://www.cisco.com/go/sslvpn for instructions on how to obtain a IOS SSLVPN license

SSLVPNMGR

%SSLVPNMGR-5-LOGIN_AUTH_FAILED : Failed to contact authentication server. [chars]

Explanation	Authentication server is unavailable because it is down or unreachable
Recommended Action	Verify if routes are configured correctly to reach authentication and the server is configured correctly

---

%SSLVPNMGR-5-LOGIN_AUTH_REJECTED : Failed to authenticate user credentials. [chars]

Explanation	Authentication server failed to validate credentials provided by the user to login under webvpn context
Recommended Action	Check username and password configured on authentication server

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%SSLVPNMGR-6-CONTEXT_MAX_USERS_LOGIN_DENIED : Authentication successful, user logged in. [chars]Session terminated. [chars]HTTP request without login cookie. [chars]Login denied for user [chars]. Max users exceeded for context [chars]

Explanation	This message indicates that login authentication succeeded for user SSLVPN session was terminated This message indicates that HTTP request doesn't have valid login cookie and is not authorized to access the resource This message indicates that user was denied to login because the the max users for the context has been exceeded
Recommended Action	Check the gateway configuration and reconfigure the maximum allowed users in the context

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SSLVPN_PROXY

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

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

%SSLVPN_PROXY-3-PROXY_BAD_MSG : QFP SSLVPN Proxy received bad length message type [dec]

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

%SSLVPN_PROXY-3-PROXY_INV_MSG : QFP SSLVPN Proxy received invalid message type [dec]

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

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

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

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

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

%SSLVPN_PROXY-4-PROXY_CRYPTO_CTX_REQ_FAIL : QFP SSLVPN Proxy failed to replenish hardware context handles., MSGDEF_LIMIT_SLOW

Explanation	Cisco internal software error. QFP SSLVPN Proxy message processing detected out-of-resource condition and cannot replenish hardware context handles. QFP SSLVPN will not be functional properly while this conidtion exist.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSLVPN_PROXY-3-PROXY_SSL_CTX_MEM_REQ_FAIL : QFP SSLVPN Proxy failed to repleneish SSL context memory., MSGDEF_LIMIT_SLOW

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

%SSLVPN_PROXY-3-PROXY_CRYPTO_CTX_MEM_REQ_FAIL : QFP SSLVPN Proxy failed to repleneish crypto context memory., MSGDEF_LIMIT_SLOW

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

SSSMGR

%SSSMGR-3-NULL_FSM_CONTEXT : Encountered a NULL SSS Mgr context in [chars]

Explanation	Encountered a NULL context in SSS 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.

%SSSMGR-3-INVALID_FSM_STATE : Encountered an invalid SSS Mgr state [dec] in [chars]

Explanation	An internal SSS Manager 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.

%SSSMGR-3-INIT : Initialisation failure, [chars]

Explanation	An internal SSS Manager 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.

%SSSMGR-3-MEMORY_LOW : Memory low ([dec] times), disconnecting session

Explanation	Required 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.

%SSSMGR-3-RESOURCE_OVERFLOW : Resource overflow

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

%SSSMGR-3-NULL_INFO_STRING : Received a NULL info string value.

Explanation	An internal SSS Manager 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.

%SSSMGR-3-UNEXPECTED_SIP_INFO : Encountered an unexpected SIP info: [chars]

Explanation	Encountered an unexpected SIP info.

%SSSMGR-3-UNEXPECTED_SIP_INFO : Encountered an unexpected SIP info: [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.

%SSSMGR-3-INVALID_INFO_TYPE : Received an INVALID info type value ([dec]).

Explanation	An internal SSS Manager 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.

%SSSMGR-3-INVALID_SERVICE_TYPE : Received an INVALID service type ([dec])[chars].

Explanation	An internal SSS Manager 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.

%SSSMGR-3-INFO_TYPE_NO_COPY_VECTOR : info type has no copy vector ([dec]).

Explanation	An internal SSS Manager 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.

%SSSMGR-3-DYNAMIC_UPDATE_NOT_SUPPORTED : [[dec]] Dynamic session updates not allowed on this [chars] session. It is an unsupported configuration.

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

%SSSMGR-3-UNEXPECTED_MSG : Encountered an unexpected message: [chars]

Explanation	Encountered an unexpected 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.

%SSSMGR-5-IFCFG_NOTALLWED_IN_SVC : Interface-config not allowed at service config level, ignoring

Explanation	Interface-config attribute is not allowed while in a service profile. It is only supported in user profiles.
Recommended Action	Remove interface-config attribute from the service profile and reconfigure using a user profile.

%SSSMGR-3-UNSUPPORTED_CFG : Unsupported configuration detected: [uid: [int]] [chars]

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

%SSSMGR-5-UNSUPPORTED_CFG_NOTICE : Unsupported configuration detected, [chars]

Explanation	The value of the specified configuration parameter was out of range. This is not considered an error as the value was adjusted to be within the supported range. Update the configuration source to a value within the supported range to avoid this message.
Recommended Action	No action is required.

%SSSMGR-3-ERROR_RESOURCE_OVERFLOW : Resource overflow

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

%SSSMGR-4-WARN_RESOURCE_ABOVE_WM : Resource above watermark

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

%SSSMGR-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

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

%SSSMGR-5-BB_LICENSE_REQUEST_SENT : Broadband license request sent for [int] license with configured license count [int]

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

%SSSMGR-5-BB_LICENSE_PROCUREMENT_SUCCESS : Successfully procured [int] BroadBand licenses

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

%SSSMGR-5-BB_LICENSE_PROCUREMENT_FAILURE : Failed to procure [int] BroadBand licenses

Explanation

%SSSMGR-5-BB_LICENSE_PROCUREMENT_FAILURE : Failed to procure [int] BroadBand licenses

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

%SSSMGR-5-BB_LICENSE_RELEASE_SUCCESS : Successfully released all BroadBand licenses

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

%SSSMGR-5-BB_LICENSE_RELEASE_FAILURE : Failed to release all BroadBand licenses

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

STACKMGR

%STACKMGR-6-DISC_START : [chars] [dec] is starting stack discovery.

Explanation	The specified switch is starting stack discovery.
Recommended Action	No action is required

%STACKMGR-6-DISC_DONE : [chars] [dec] has finished stack discovery.

Explanation	The specified switch has completed stack discovery and is moving to the election phase.
Recommended Action	No action is required

%STACKMGR-5-SWITCH_REMOVED : [chars] [dec] has been removed from the stack.

Explanation	The specified switch has been removed from the stack.
Recommended Action	No action is required

%STACKMGR-6-CHASSIS_REMOVED : [chars] [dec] has been removed from the stack.

Explanation	The specified chassis has been removed from the stack.
Recommended Action	No action is required

%STACKMGR-5-SWITCH_ADDED : [chars] [dec] has been added to the stack.

Explanation	The specified switch has been added to the stack.
Recommended Action	No action is required

%STACKMGR-6-CHASSIS_ADDED : [chars] [dec] has been added to the stack.

Explanation	The specified chassis has been added to the stack.
Recommended Action	No action is required

%STACKMGR-6-ACTIVE_READY : Active [chars] [dec] is ready.

Explanation	The active switch is ready.
Recommended Action	No action is required

%STACKMGR-6-ACTIVE_ELECTED : [chars] [dec] has been elected ACTIVE.

Explanation	The specified switch has been elected active.
Recommended Action	No action is required

%STACKMGR-6-STANDBY_ELECTED : [chars] [dec] has been elected STANDBY.

Explanation	The specified switch has been elected standby.

%STACKMGR-6-STANDBY_ELECTED : [chars] [dec] has been elected STANDBY.

Recommended Action	No action is required

%STACKMGR-6-SWITCH_READY : [chars] [dec] is ready.

Explanation	The specified switch is ready.
Recommended Action	No action is required

%STACKMGR-6-CHASSIS_READY : [chars] [dec] is ready.

Explanation	The specified chassis is ready.
Recommended Action	No action is required

%STACKMGR-1-RELOAD_REQUEST : Received reload request for [chars], reason [chars]

Explanation	The specified switches are being reloaded.
Recommended Action	No action is required

%STACKMGR-1-RELOAD : Reloading due to reason [chars]

Explanation	The specified switch has received a reload request and is being reloaded.
Recommended Action	No action is required

%STACKMGR-1-FATAL_ERR : Stack manager encountered an unrecoverable error. [chars]

Explanation	The stack manager process has encountered an unrecoverable error and the switch is being reloaded.
Recommended Action	Please ensure valid switch numbers are being used. If you still believe there is an error in the system, please send the system report to a TAC representative

%STACKMGR-6-STACK_LINK_CHANGE : Stack port [dec] on [chars] [dec] is [chars]

Explanation	The specified stack port has changed status.

%STACKMGR-6-STACK_LINK_CHANGE : Stack port [dec] on [chars] [dec] is [chars]

Recommended Action	No action is required

%STACKMGR-1-STACK_MERGE_IGNORE : Stack Merge Ignored [chars]

Explanation	Switch detected multiple Active switches. But stack-merge is being ignored.
Recommended Action	No action is required

%STACKMGR-1-DUAL_ACTIVE_CFG_MSG : Dual Active Detection [chars]

Explanation	Switch detected availability or unavailability of Dual Active Detection ports.
Recommended Action	No action is required

%STACKMGR-1-EPA_MISMATCH : [chars]. The mis-match may caused by hardware failure or different EPA types.

Explanation	The Standby EPA mismatch with Active EPA.
Recommended Action	Need to make them match

%STACKMGR-1-LIC_MISMATCH : License level is [chars] and needs to be upgraded to [chars] for Stackwise Virtual to function.

Explanation	Current Licnese level on active switch does not support Stackwise Virtual.
Recommended Action	Need to be upgraded to supported license level

STILE through SWPORT_PROXY

- STILE
- STILE_CLIENT
- STILE_PROXY
- STP_ISSU
- STUN

- SUBSYS

- SWITCH

- SWITCH_L2M

- SWPORT

- SWPORT_PROXY

STILE

%STILE-4-STATIC_SLINK_ALLOC_FAILED : Memory resources exhausted to configure custom/sub protocol, MSGDEF_LIMIT_GLACIAL

Explanation	This message indicates that current user configuration could not be activated because of unavailability of memory resources. The NBAR cannot classify packets for this new protocol configured.
Recommended Action	The memory resource exhausion is happening because too many port range based protocols are configured by the user. Recommended action is to avoid very large range of ports.

%STILE-3-PDL_DEBUG : Action action_print is supported only in pdl debug mode. Text = [chars] Value = [hex]

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

%STILE-3-NBAR_DEBUG_REG_FAILED : [dec]

Explanation	NBAR Conditional debugging registration failed.
Recommended Action	

%STILE-3-VM_ERRORS : STILE VM traceback with cause: *[chars]*, please see FP log for more information

Explanation	
Recommended Action	

STILE_CLIENT

%STILE_CLIENT-4-MAX_LINK_TOUCH_WARN : NBAR number of [chars] threshold is reached, can't allocate more memory for [chars].

Explanation	Because of non-availability of flow links new traffic flows may not be classified properly
Recommended Action	No action is required.

%STILE_CLIENT-4-MAX_LINK_TOUCH_CLEAR : NBAR number of [chars] has declined below its threshold, links are available for [chars].

Explanation	After NBAR was in links shortage, the number of links has declined below its threshold. New traffic flows will be classified properly
Recommended Action	No action is required.

%STILE_CLIENT-4-NBAR_MEMORY_BOUNDARY_TOUCH_WARN : NBAR reached maximum configured memory utilization. Can't allocate more memory for [chars].

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

%STILE_CLIENT-4-NBAR_MEMORY_BOUNDARY_TOUCH_CLEAR : NBAR memory utilization has declined below its threshold, memory is available for [chars].

Explanation	After NBAR was in memory shortage, memory utilization has declined below its threshold New traffic flows will be classified properly
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%STILE_CLIENT-4-SYS_FREE_MEMORY_LOW_WATERMARK_TOUCH_WARN : System free memory has reached its lower watermark. Can't allocate more memory for [chars].

Explanation	Because of system memory shortage new flows may not be classified properly

%STILE_CLIENT-4-SYS_FREE_MEMORY_LOW_WATERMARK_TOUCH_WARN : System free memory has reached its lower watermark. Can't allocate more 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.

%STILE_CLIENT-4-SYS_FREE_MEMORY_LOW_WATERMARK_TOUCH_CLEAR : System free memory has increased above its lower watermark, memory is available for [chars].

Explanation	After system memory was in shortage, free memory has increased above its lower watermark New traffic flows will be classified properly
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%STILE_CLIENT-4-NBAR_NOT_ENOUGH_STATIC_MEMORY : NBAR does not have enough memory to be activated.

Explanation	System does not have enough free memory to allow activation of NBAR
Recommended Action	No action is required.

%STILE_CLIENT-4-NBAR_ACTIVATION_FAILED : NBAR activation process has failed with errcode [dec].

Explanation	Activation of NBAR has failed. the cause is provided through the error code from cerrno.h
Recommended Action	No action is required.

%STILE_CLIENT-4-NBAR_GENERAL_FAILED : An error occured, with errcode [dec].

Explanation	An error occured, will not handle the messages, wait for deactivate the cause is provided through the error code from cerrno.h
Recommended Action	No action is required.

STILE_PROXY

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

Explanation	For a request from upper STILE software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck binding that cannot be established etc. In rare cases this could also affect other operations such as feature activation.
Recommended Action	This is normally a software issue. LOG_STD_ACTION

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

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

%STILE_PROXY-3-IPC_UNHANDLED : type [dec]

Explanation	An unknown message was received by the STILE Client Proxy.
Recommended Action	LOG_STD_ACTION

%STILE_PROXY-3-SLINK_MEM_REQ_FAILED :

Explanation	IPC Failure occurred when attempting to request more stile link memory.
Recommended Action	LOG_STD_ACTION

%STILE_PROXY-3-PROXY_SLINK_MEM_EXTEND_FAILED :

Explanation	Increasing of stile slink pool failed.
Recommended Action	LOG_STD_ACTION

%STILE_PROXY-3-PROXY_IPC_SEND_FAILED : IPC send msg for [chars] [dec] failed

Explanation	IPC failed to reply

%STILE_PROXY-3-PROXY_IPC_SEND_FAILED : IPC send msg for [chars] [dec] 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.

STP_ISSU

%STP_ISSU-2-INIT : STP ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation	The STP 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.

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

Explanation	The STP 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 STP 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>)

%STP_ISSU-3-MSG_NOT_OK : STP ISSU client 'Message Type [dec]' is not compatible

Explanation	The STP 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>)

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

Explanation	The STP ISSU client failed to calculate the MTU for the specified message. The STP 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>)

%STP_ISSU-3-INVALID_SESSION : STP ISSU client does not have a valid registered session.

Explanation	STP 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>)

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

Explanation	The STP 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>)

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

Explanation	The STP 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>)

%STP_ISSU-2-SESSION_NEGO : STP ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation	An ISSU-compliant client transitions through a series of internal states. The STP 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>)

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

Explanation	The STP 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)

%STP_ISSU-2-SESSION_ARBITRATE : STP ISSU client failed to register arbitrate callback. Error: [dec] ([chars])

Explanation	The STP ISSU client failed to register arbitrate callback. If a problem occurs with the callback 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>)

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

Explanation	STP 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)

%STP_ISSU-3-INVALID_CAPABILITY : STP ISSU client: invalid capability list

Explanation	STP ISSU client observed an error during capability negotiaiton. When this error happens there is a mismatch in the client capability between the active and standby unit.
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>)

%STP_ISSU-3-REJECTED_CAPABILITY : STP ISSU client rejected capability '[chars]'

Explanation	STP ISSU client rejected a capability during negotiaiton. When this error happens there is a mismatch in the client capability between the active and standby unit.
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>)

%STP_ISSU-3-REJECTING_CAPABILITY : STP ISSU client rejecting capability '[chars]'

Explanation	STP ISSU client is rejecting a capability during negotiaiton. When this error happens there is a mismatch in the client capability between the active and standby unit.
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>)

%STP_ISSU-3-POLICY_NOT_SUPPORTED : STP ISSU client does not support Message Type [dec]

Explanation	STP ISSU client received an message type which it does not support. The policy is applied to make the session incompatible.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id>)

STUN

%STUN-4-DUPROUTE : Cannot define duplicate route on the same group

Explanation	This route command is defined on another interface belonging to the same group. Cannot define duplicate route on the same group
Recommended Action	Consider defining a new group and moving this interface onto that group

%STUN-4-PEERSTATE : Peer [chars], wrong state [dec] ([dec])

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

%STUN-3-BADMAGIC : [chars]: wrong magic, mine [hex], theirs [hex] ([dec])

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

%STUN-3-BADMAGICTCP : [chars]: peer [chars], wrong magic, mine [hex], theirs [hex]

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

%STUN-3-BADLENOP : [chars]: bad len or unknown op, op [dec], len [dec]

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

%STUN-6-TCPPEERSHUT : [chars] [chars], [IP_address]([dec])

Explanation	This route closed a STUN connection with a remote peer.
Recommended Action	Examine this router to see why it closed this connection with this peer. (This can be caused by normal events, such as reconfiguration.)

%STUN-3-CONNILLSTATE : CONN: Peer [chars], illegal state [dec]

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

%STUN-3-BADCONN : CONN: bad connection ([dec]), peer: [chars]

Explanation	An internal software error occurred.

%STUN-3-BADCONN : CONN: bad connection ([dec]), peer: [chars]

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

%STUN-4-ERR : [chars]: [chars]: [chars], op [hex], len [dec]

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

%STUN-3-SENDPUNT : [chars]: sent [chars] to [chars]

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

%STUN-3-SENDPUNTTCP : [chars]: sent [chars] to ([[int]])[IP_address]

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

%STUN-6-OPENING : CONN: opening peer [chars], [dec]

Explanation	A connection attempt to a remote peer completed successfully (OPENED, PASSIVE-OPEN) or is in the process of being opened (OPENING). This is good, expected behavior.

%STUN-6-OPENING : CONN: opening peer [chars], [dec]

Recommended Action	No action is required.

%STUN-6-CONNOPENFAIL : CONN: peer [chars] open failed, [chars] [[int]]

Explanation	An attempt to connect to a remote TCP STUN peer failed.
Recommended Action	Verify that the remote peer is accessible from this router, that it is running software capable of supporting STUN, and that it is configured correctly.

%STUN-3-BADPASSIVEOPEN : passive open from [IP_address]([dec]) -> [dec] failed

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

%STUN-6-PASSIVEOPEN : passive open [IP_address]([dec]) -> [dec]

Explanation	A connection attempt to a remote peer completed successfully (OPENED, PASSIVE-OPEN) or is in the process of being opened (OPENING). This is good, expected behavior.
Recommended Action	No action is required.

%STUN-6-TCPFINI : peer [chars] closed [previous state [chars]]

Explanation	A remote peer closed a STUN connection with this router.
Recommended Action	Examine the other router to see why it closed this connection with this peer. (This can be caused by normal events, such as reconfiguration.)

%STUN-6-PEERSHUTDOWN : shutting down peer [chars] on [chars]

Explanation	A connection to a remote peer is being shut down. This is typically the result of user intervention in STUN reconfiguration or disabling. This is good, expected behavior.
Recommended Action	No action is required.

%STUN-6-OPENED : [chars]: peer [chars] opened, [previous state [chars]]

Explanation	A connection attempt to a remote peer completed successfully (OPENED, PASSIVE-OPEN) or is in the process of being opened (OPENING). This is good, expected behavior.
Recommended Action	No action is required.

%STUN-3-NOINPIDB : Input idb not set

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

%STUN-6-RECONNECT : PHDR: reconnect from peer [chars]

Explanation	A remote peer reestablished a connection to this router.
Recommended Action	No action is required.

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

Explanation	A memory shortage existed at the time that the configuration command was issued. This condition is rare and, under normal conditions, temporary.
Recommended Action	Reconfigure the STUN group. If memory shortages persist, call your Cisco technical support representative for assistance.

%STUN-2-NOTGI : Please remove and redefine protocol group [dec]

Explanation	An internal error occurred. The configuration is irregular.
Recommended Action	Remove and reconfigure the STUN protocol group. Record the configuration and call your Cisco technical support representative for assistance.

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

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

SUBSYS

%SUBSYS-2-BADVERSION : Bad subsystem version number ([dec]) - ignoring subsystem

Explanation	A software consistency check failed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SUBSYS-2-MISMATCH : Kernel and subsystem version differ ([dec].[dec]) - ignoring subsystem

Explanation	A software consistency check failed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SUBSYS-2-BADCLASS : Bad subsystem class ([dec]) - ignoring subsystem

Explanation	A software consistency check failed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SUBSYS-2-BADSEQUENCE : Subsystem ([chars]) has cross-class sequence for ([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.

%SUBSYS-2-RECURSION : Maximum sequence depth exceeded ([dec]) by ([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.

%SUBSYS-2-NOTFOUND : Subsystem ([chars]) needs subsystem ([chars]) to start

Explanation	A software consistency check failed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SUBSYS-3-PAGEZERO : The [chars] class subsystem [chars] was being initialized.

Explanation	In all Cisco products the first 256 bytes of memory is unused and off limits. Newer platforms have hardware to immediately trap reads or writes to this area. Older platforms periodically perform checks on this memory. This message appears only on older platforms and indicates that this off limits memory area was modified.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SUBSYS-3-NOAPIHOOK : The API [chars] has no lookup hook for subsystems.

Explanation	This process uses the named API, but the process initialization code could not find the subsystem-initialization hook for this API. Process initialization cannot proceed without all hooks being present.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative, along with output from 'show tech'.

%SUBSYS-3-UNORDERED : The subsys class [dec]([chars]) has no initialization order.

Explanation	The specified class subsystem has an unknown initialization order.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative, along with output from 'show tech'.

%SUBSYS-4-MALLOC : Class [chars], subsys [chars], bytes [int], malloc [dec]

Explanation	This message is only for tracking malloc/free in a subsys init.
Recommended Action	For development debugging only.

SWITCH

%SWITCH-1-NOMEMORY : msgtxt_nomemory

Explanation	The CPU was unable to access the memory it needs to carry out its functions. Here are some possible causes. The network is large, requiring a lot of memory for routing tables, and so on. The router configuration has many features enabled, each of which require a certain amount of memory. A software error (memory leak) exists.
Recommended Action	Reduce system activity to ease the memory demand, or upgrade to a larger memory configuration.

SWITCH_L2M

%SWITCH_L2M-3-INIT_FAILED : Initialization of the SVI feature in QFP failed

Explanation	Initialization of the SWITCH_L2M feature in the QFP failed. This indicates a software failure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SWITCH_L2M-3-ALLOC_FAILED : Allocation of [chars] memory failed for SWITCH_L2M feature in QFP

Explanation	Allocation of memory by the QFP SWITCH_L2M feature microcode failed. The name of the memory chunk is specified in the message. This indicates a software failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SWITCH_L2M-3-PKT_REPLICA_INIT_FAILED : Failed to register with generic packet replication for SWITCH_L2M feature in QFP

Explanation	SWITCH_L2M initialization of packet replication registration failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SWPORT

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

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

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

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

SWPORT_PROXY

%SWPORT_PROXY-3-SWPORT_MEM_REQ_FAILED : SWPORT IPC subtype: [dec]

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

%SWPORT_PROXY-3-SWPORT_MEM_EXTEND_FAILED : SWPORT IPC subtype: [dec]

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

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

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

%SWPORT_PROXY-4-PROXY_INVALID_MSG : QFP SWPORT Proxy received invalid message type [dec]

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

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

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

%SWPORT_PROXY-3-PROXY_BAD_MSG : QFP SWPORT Proxy received bad length message type [dec]

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

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

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

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

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