



EOS System Message Guide

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Chapter 1

System Message Overview

1.1 Message Format

System Messages on EOS have the following format:

timestamp hostname process: [seq_number:] %FACILITY-Severity-Mnemonic: Message text

Here's an explanation of each of the fields:

timestamp	This is the time the message was generated. The time is obtained from the clock on the switch. (You should configure the clock to get an accurate timestamp, or use NTP)
hostname	The hostname is the system name configured for the switch
process	The process is the system process that generated the message
seq_number	The sequence number of the message. The generation of sequence numbers is an optional configuration, and is disabled by default. The configuration command to generate sequence numbers is <i>[no] service sequence-numbers</i>
FACILITY	The Facility that generated the syslog message. These are the various modules used internally to manage all the functionality of the device
Severity	A number from 1 through 7, indicating the severity of the message. 1 is most severe, and 7 is the least severe. See the section below to see a detailed description of severity levels
Mnemonic	This is a mnemonic code that uniquely identifies the message. Mnemonic codes are all upper case character strings
Message text	This is the text of the system message containing details of the event. Some messages have variable fields in the message, which may contain MAC addresses, interfaces names, etc

1.2 Severity Levels

The severity of a system message varies from 0 through 7. The lower the severity, the higher the criticality of the message. The different severity levels are described below.

Severity	Description
0	Emergency - system cannot be used. Immediate administrator attention is required
1	Alert - not used. We use severity level Emergency for critical messages
2	Critical - not used. We use severity level Emergency for critical messages
3	Error - the system has encountered an error. The message details help describe the urgency
4	Warning - something may be wrong, or misconfigured. No immediate attention is required, although further investigation is required
5	Notice - not used. We use severity level Information instead.
6	Information - informational message about the system. Provides changes in operational status
7	Debug - used for aiding in troubleshooting. This could produce excessive output and should not be used without discussing with your technical support representative

Chapter 2

System Messages

2.1 AAA Messages

ACCT_FALLBACK: Accounting method '%s' is currently unavailable; falling back to next method for action '%s' for user %s.

Severity: Warning

Explanation: The accounting method failed to provide an answer and is considered unavailable. If the method list for this service contains a fallback method, this request will be retried via that method.

Recommended Action: Check the availability and reachability of the accounting server(s).

ACCT_MSG_DROP: No available server; accounting messages will be dropped.

Severity: Warning

Explanation: None of the accounting servers are responsive, and the switch will drop messages until the error is rectified.

Recommended Action: Check the availability and reachability of the accounting server(s).

ACCT_MSG_RESUME: Resumed successful sending of accounting messages.

Severity: Warning

Explanation: Accounting message successfully sent as the switch is able to contact the accounting server(s).

Recommended Action: No action is required – this message is for information only.

ACCT_PLUGIN_NOT_READY: Accounting method '%s' is not ready

Severity: Warning

Explanation: Accounting an action using this accounting method failed because the method is not ready. This can occur if the method has not been fully configured.

Recommended Action: Check to see if the accounting method has been configured.

ACCT_QUEUE_FULL: Accounting queue is full; the oldest %d messages will be dropped.

Severity: Warning

Explanation: There were too many messages in the accounting queue, and the switch discarded some pending messages to avoid consuming too many resources. It normally means that the server was slow at taking the accounting messages.

Recommended Action: Check the availability and reachability of the accounting server(s).

AUTHEN_UNEXPECTED_MESSAGE: Unexpected message for login service '%s' user '%s' (%s)

Severity: Error

Explanation: AAA received unexpecte message for authentication

Recommended Action: AAA server should only ask for username/password

AUTHN_FALLBACK: Authentication method '%s' is currently unavailable; falling back to next method for service '%s' for user %s.

Severity: Warning

Explanation: The authentication method failed to provide an answer and is considered unavailable. If the method list for this service contains a fallback method, this request will be retried via that method.

Recommended Action: Check the availability and reachability of the authentication server(s).

AUTHN_PLUGIN_NOT_READY: Authentication method '%s' is not ready

Severity: Warning

Explanation: Authenticating a user with this authentication method failed because the method is not ready. This can occur if the method has not been fully configured.

Recommended Action: Check to see if the authentication method has been configured.

AUTHZ_FALLBACK: Authorization method '%s' is currently unavailable; falling back to next method for action '%s' for user %s.

Severity: Warning

Explanation: The authorization method failed to provide an answer and is considered unavailable. If the method list for this service contains a fallback method, this request will be retried via that method.

Recommended Action: Check the availability and reachability of the authorization server(s).

AUTHZ_PLUGIN_NOT_READY: Authorization method '%s' is not ready

Severity: Warning

Explanation: Authorizing an action using this authentication method failed because the method is not ready. This can occur if the method has not been fully configured.

Recommended Action: Check to see if the authorization method has been configured.

CMD_AUTHZ_FAILED: User %s failed authorization to execute command '%s' %s

Severity: Warning

Explanation: AAA denied authorization for the specified command.

Recommended Action: Confirm that the user settings on authorization server(s) are correct.

EXEC_AUTHZ_FAILED: User %s failed authorization to start a shell on %s %s

Severity: Warning

Explanation: AAA server denied authorization to start a shell.

Recommended Action: Confirm that the user settings on authorization server(s) are correct.

HOMEDIR_PERSISTENT_FILE_ERROR: A problem occurred setting up persistent file links in the home directory for user %s (errors: %d)

Severity: Warning

Explanation: AAA creates links in user's home directory pointing to persistent files under flash:/home/<user> when a user logs in. A problem occurred during this process, and the user's home directory may not have created all links to the persistent files.

Recommended Action: Please log out and log back in. Contact your support representative if error persists.

HOMEDIR_SETUP_ERROR: A problem occurred setting up the home directory for user %s

Severity: Warning

Explanation: AAA creates a home directory at the time of a user's first login and may populate it with some settings files. A problem occurred during this process, and the user's home directory may not have been created or may be partially populated.

Recommended Action: Log out and log back in. Contact your support representative if error persists.

INCOMPLETE_LOGINS_LIMIT: Too many incomplete login attempts

Severity: Error

Explanation: AAA has received too many incomplete login attempts within the last 5 minutes. Login via console is available, but login via ssh or telnet may fail until some of the incomplete login sessions expire.

Recommended Action: Investigate whether the device is being attacked. Attempt login via the console.

INVALID_ACCT_METHODLIST: Invalid accounting method list configured for action '%s': method '%s' is unknown

Severity: Error

Explanation: An attempt to account for an action failed because the method list configured for the action contains a method name that does not match any available accounting plugins.

Recommended Action: Fix the method list configuration.

INVALID_AUTHENTYPE: Invalid authentication type '%s' requested

Severity: Error

Explanation: AAA received an authentication request containing an unknown authentication type.

Recommended Action: Contact your support representative if error persists.

INVALID_AUTHN_METHODLIST: Invalid authentication method list configured for service '%s': method '%s' is unknown

Severity: Error

Explanation: An attempt to authenticate a user for the service failed because the method list configured for the service contains a method name that does not match any available authentication plugins.

Recommended Action: Fix the method list configuration.

INVALID_AUTHZ_METHODLIST: Invalid authorization method list configured for action '%s': method '%s' is unknown

Severity: Error

Explanation: An attempt to authorize an action failed because the method list configured for the action contains a method name that does not match any available authorization plugins.

Recommended Action: Fix the method list configuration.

INVALID_RADIUS_RULE: Invalid rule '%s' for RADIUS user '%s'

Severity: Error

Explanation: The configuration file on RADIUS server contains invalid rules.

Recommended Action: Correct the invalid rules on RADIUS server.

INVALID_RADIUS_SERVER: RADIUS server '%s' port %d could not be used: %s

Severity: Warning

Explanation: The configuration contains a RADIUS server that could not be used. One cause for this type of error is a hostname for which DNS resolution fails.

Recommended Action: Correct the RADIUS server configuration.

INVALID_REGEX_IN_ROLE: Rule %d of Role %s has an invalid regular expression

Severity: Error

Explanation: The specified rule has an invalid regular expression, and will not take effect until the syntax is fixed.

Recommended Action: Fix the role configuration.

INVALID_TACACS_SERVER: TACACS+ server '%s' port %d could not be used: %s

Severity: Warning

Explanation: The configuration contains a TACACS+ server that could not be used. One cause for this type of error is a hostname for which DNS resolution fails.

Recommended Action: Correct the TACACS+ server configuration.

LOGIN: user %s logged in [from: %s] [service: %s]

Severity: Notice

Explanation: A user has logged in successfully

Recommended Action: No action is required – this message is for information only.

LOGIN_FAILED: user %s failed to login [from: %s] [service: %s] [reason: %s]

Severity: Warning

Explanation: A user has failed to login to the switch

Recommended Action: No action is required – this message is for information only.

LOGOUT: user %s logged out [from: %s] [service: %s]

Severity: Notice

Explanation: A user has logged out or the session has terminated

Recommended Action: No action is required – this message is for information only.

NO_VALID_LDAP_SERVERS: No valid LDAP servers for method list '%s'

Severity: Error

Explanation: The configuration contains an authentication method list that is not associated with any valid LDAP servers. One common cause for this error is a hostname for which DNS resolution fails.

Recommended Action: Correct the LDAP server configuration.

NO_VALID_RADIUS_SERVERS: No valid RADIUS servers for method list '%s'

Severity: Error

Explanation: The configuration contains an authentication method list that is not associated with any valid RADIUS servers. One common cause for this error is a hostname for which DNS resolution fails.

Recommended Action: Correct the RADIUS server configuration.

NO_VALID_TACACS_SERVERS: No valid TACACS+ servers for method list '%s'

Severity: Error

Explanation: The configuration contains an authentication method list that is not associated with any valid TACACS+ servers. One common cause for this error is a hostname for which DNS resolution fails.

Recommended Action: Correct the TACACS+ server configuration.

REMOTE_LOGIN_DENIED_BY_POLICY: Remote login from %s denied for user %s due to authentication policy

Severity: Warning

Explanation: A remote login attempt was denied due to authentication policy. For example, the configured policy may prohibit remote logins for accounts with empty passwords.

Recommended Action: No action is required – this message is for information only.

ROOT_PASSWORD_NOTUPDATED: Password setting for root not changed due to internal error (%s)

Severity: Warning

Explanation: The password for the root user could not be changed from its current value. The old password (if any) continues to be valid for the account. This is a potential security risk.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SSHDIR_FILESYSTEM_ERROR: Error generating ssh %s at path %s (%s)

Severity: Error

Explanation: An attempt to create a file in the ssh directory failed because of a filesystem error.

Recommended Action: Check to see if the filesystem has run out of disk space. (Potentially from large log files) Contact TAC Support if this problem persists

UNKNOWN_RADIUS_SERVER: RADIUS server group '%s' references unknown server '%s'

Severity: Warning

Explanation: The RADIUS server group contains a server that was not configured using the 'radius-server host' command.

Recommended Action: Configure the unknown server or remove it from the server group.

UNKNOWN_TACACS_MANDATORY_ATTRIBUTE: Received unknown mandatory attribute '%s' from Tacacs+ server

Severity: Error

Explanation: The authorization response from tacacs server includes one or more mandatory attributes we do not support; failing authorization.

Recommended Action: Change the TACACS+ server configuration.

UNKNOWN_TACACS_SERVER: TACACS+ server group '%s' references unknown server '%s'

Severity: Warning

Explanation: The TACACS+ server group contains a server that was not configured using the 'tacacs-server host' command.

Recommended Action: Configure the unknown server or remove it from the server group.

USERINFO_IO_ERROR: Error generating user info file (%s)

Severity: Error

Explanation: An attempt to generate user info file failed because of a filesystem error.

Recommended Action: Check to see if the filesystem has run out of disk space. Contact TAC Support if this problem persists

USER_SESSION_LIMIT: User %s has reached maximum session limit (%d)

Severity: Error

Explanation: The user has reached its configured session limit under 'management accounts'.

Recommended Action: Investigate whether the user has logged in too many times. If the user is an automation account, check if the automation system is misbehaving.

2.2 ACCOUNTING Messages

CMD: %s task_id=%d start_time=%d timezone=%s service=%s priv-lvl=%d cmd=%s

Severity: Info

Explanation: Command accounting message.

Recommended Action: No action is required – this message is for information only.

EXEC: %s task_id=%d start_time=%d timezone=%s service=%s%s

Severity: Notice

Explanation: Exec accounting message.

Recommended Action: No action is required – this message is for information only.

SYSTEM: %s task_id=%d start_time=%d timezone=%s service=%s event=%s reason=%s

Severity: Notice

Explanation: System accounting message.

Recommended Action: No action is required – this message is for information only.

2.3 ACE Messages

ACTION_NOT_AVAILABLE: The %s action configured in the %s policy map is not in the TCAM action set

Severity: Info

Explanation: A policy map action is not present in the configured TCAM action set. The corresponding rules will not be programmed in the TCAM. Remove the action from the policy map or add the action to the TCAM action set.

Recommended Action: No action is required – this message is for information only.

2.4 ACL Messages

ACTIVE_ON_INTERFACE: All ACLs applied on %s are now in effect

Severity: Warning

Explanation: All ACLs are applied to the interface successfully

Recommended Action: No action is required – this message is for information only.

COMPUTATION_FAILED: Computing resources to program ACLs failed (%s).

Severity: Error

Explanation: The switch is unable to program the ACLs into hardware due to insufficient hardware resources. The ACL will not be active.

Recommended Action: Reconfigure your ACLs to reduce the resource usage

COMPUTATION_SUCCESS: Computing resources to program ACLs succeeded (%s).

Severity: Info

Explanation: The switch has successfully programmed ACLs into hardware. The ACLs are now active.

Recommended Action: No action is required – this message is for information only.

DISCONTIG_MASK: ACL with unsupported discontinuous mask (%s)

Severity: Warning

Explanation: The switch is unable to enforce this rule. It will be ignored.

Recommended Action: Reconfigure the ACL to use contiguous masks.

EGRESS_LOGGING_NOT_SUPPORTED: Egress ACL logging is not supported

Severity: Warning

Explanation: This hardware platform does not support egress ACL logging. ACL rules with log actions are still applied to the interface without logging functionality

Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: Hardware resources are insufficient to program all ACLs (%s)

Severity: Error

Explanation: The switch is unable to program all ACLs due to insufficient hardware resources.

Recommended Action: Reconfigure your ACLs to reduce the size and/or complexity of the ACL.

HW_RESOURCE_NORMAL: All ACLs are programmed in hardware (%s)

Severity: Error

Explanation: The switch was able to program all the ACLs in the hardware.

Recommended Action: No action is required – this message is for information only.

IP6ACCESS: %slist %s %s %s %s %s -> %s%s

Severity: Info

Explanation: A packet has matched one of the rules with 'log' option in the specified IPv6 access-list.

Recommended Action: No action is required – this message is for information only.

IPACCESS: %slist %s%s %s %s

Severity: Info

Explanation: A packet has matched one of the rules with 'log' option in the specified IP access-list.

Recommended Action: No action is required – this message is for information only.

IPACCESS2: %slist %s%s %s %s

Severity: Notice

Explanation: A packet has matched one of the rules with 'log' option in the specified IP access-list.

Recommended Action: No action is required – this message is for information only.

IPV6_ERACL_ROUTEDPORT: The IPv6 Egress ACL that was applied to interface %s will now be installed

Severity: Info

Explanation: IPv6 Egress ACLs on routed ports are supported. Since the interface has become a routed port, the previously configured IPv6 Egress ACL will now be installed

Recommended Action: No action is required – this message is for information only.

IPV6_ERACL_SWITCHPORT: The IPv6 Egress ACL applied to switchport %s will not be installed until the switchport is converted to a routed port

Severity: Info

Explanation: IPv6 Egress ACLs on switch (non-routed) ports are not yet supported but the user configuration will be stored. The ACL will become active when the interface is changed to a routed interface

Recommended Action: No action is required – this message is for information only.

IPV6_RACL_DSCP: IPv6 ACLs with DSCP will not be applied to VLAN interfaces

Severity: Info

Explanation: This platform does not support the application of IPv6 ACLs with DSCP to VLAN interfaces

Recommended Action: No action is required – this message is for information only.

KERNEL_TABLE_MANAGEMENT_FAILURE: %s command failed to manage rules in the kernel

Severity: Error

Explanation: The kernel rejected the rules that the agent desired to manage. This is likely to be a kernel mismatch in cEOS-lab.

Recommended Action: See the Acl agent log for details.

MACACCESS: list %s %s %s %s %s -> %s %s

Severity: Info

Explanation: A packet has matched one of the rules with 'log' option in the specified MAC access-list.

Recommended Action: No action is required – this message is for information only.

NOT_ACTIVE_ON_INTERFACE: One or more ACLs not in effect on interface %s

Severity: Warning

Explanation: The ACL is not applied on the interface due to contention with other ACLs applied on the same interface. The action is performed based on the priority of different types of ACLs as specified in the ACL limitation policy on the platform

Recommended Action: Remove contending ACLs applied on this interface

SUBINTF_UNSHARED_NOT_SUPPORTED: IPv4 egress ACLs are not supported on subinterfaces (%s) in unshared mode

Severity: Info

Explanation: The user configuration will be stored. The ACL will become active when the egress ACL sharing mode is changed to share resources

Recommended Action: No action is required – this message is for information only.

UNSUPPORTED_HARDWARE: ACL (%s) cannot be applied on %s.

Severity: Error

Explanation: The named ACL is not programmed on the named device because ACLs are not supported on the device.

Recommended Action: Remove ACLs from interfaces on the named device.

WITH_MIRROR_ACTION_UNSUPPORTED: Mirror action is unsupported on %s %s %s ACL.

Severity: Error

Explanation: ACL with mirror action is used on a switch where it is not supported.

Recommended Action: Remove mirror action from ACL.

2.5 AGENT Messages

DELETE_RETRY: Another attempt to delete the agent %s in the VRF %s will be made (%s)

Severity: Warning

Explanation: The agent in the VRF could not be deleted. Another attempt to delete the agent will be made.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EXCESSIVE_WARMUP_DELAY: Agent %s experiencing excessive warmup delay

Severity: Warning

Explanation: The agent is taking an excessive amount of time to reach steady state, meaning declare itself operating consistently with its configuration, and may be hung.

Recommended Action: If the problem persists, try killing the agent and letting ProcMgr restart it by dropping into bash mode, using ps(1) to find the process, and sending it SIGTERM or SIGKILL with kill(1).

INITIALIZED: Agent '%s' initialized; pid=%d

Severity: Info

Explanation: The specified agent has initialized, and is using the specified process ID.

Recommended Action: No action is required – this message is for information only.

MEMORY_RECLAIM: Agent reclaimed %u bytes of unused pages in the slab allocator and %u bytes from malloc%s.

Severity: Info

Explanation: The agent reacted to 'agent NAME memory reclaim now' and reclaimed unused memory.

Recommended Action: No action is required – this message is for information only.

PYTHON_LOADED: Python loaded in agent %s

Severity: Notice

Explanation: Python libraries were loaded in the agent's memory to support functionality. This message is logged to indicate the use of additional memory by the process.

Recommended Action: No action is required – this message is for information only.

SHADOW_CORRUPTION_HITFUL_RESTART: SandTopo agent detected shadow memory corruption

Severity: Error

Explanation: The agent detected shadow memory corruption while initializing.

Recommended Action: No action is required – this message is for information only.

SHADOW_CORRUPTION_HITLESS_RELOAD: SandTopo agent detected shadow memory corruption

Severity: Error

Explanation: The agent detected shadow memory corruption while reloading. A fatal error is generated, and a hitful reload will ensue.

Recommended Action: No action is required – this message is for information only.

SHADOW_CORRUPTION_HITLESS_RESTART: SandTopo agent detected shadow memory corruption

Severity: Error

Explanation: The agent detected shadow memory corruption while restarting. The restart is not hitless.

Recommended Action: No action is required – this message is for information only.

SOCKET_COMMAND_ERROR: Error (%s) on command execution

Severity: Warning

Explanation: Unexpected error caught during the execution of the command.

Recommended Action: No action is required – this message is for information only.

SOCKET_INVALID_DESCRIPTOR: Invalid socket request call

Severity: Warning

Explanation: Bad file descriptor received.

Recommended Action: No action is required – this message is for information only.

STARTUP_FAILED: %s agent failed to start in %s seconds due to: %s.

Severity: Error

Explanation: The agent could not be started.

Recommended Action: No action is required – this message is for information only.

STARTUP_SUCCEEDED: %s agent started successfully.

Severity: Info

Explanation: The agent has started successfully.

Recommended Action: No action is required – this message is for information only.

SWITCHOVER_DURING_INIT: Agent %s is exiting because switchover happened during initialization

Severity: Warning

Explanation: The agent is exiting because switchover just happened while it is still initializing. It will restart and operate normally.

Recommended Action: No action is required – this message is for information only.

WARM_AFTER_EXCESSIVE_DELAY: Agent %s warm after excessive delay

Severity: Warning

Explanation: The agent took an excessive amount of time to reach steady state, but now it appears to be operating normally.

Recommended Action: No action is required – this message is for information only.

2.6 ALARM Messages

ASSERTED: Alarm %d asserted. Description: %s. Polarity: %s.

Severity: Info

Explanation: External alarm asserted

Recommended Action: No action is required – this message is for information only.

DEASSERTED: Alarm %d deasserted. Description: %s. Polarity: %s.

Severity: Info

Explanation: External alarm deasserted

Recommended Action: No action is required – this message is for information only.

2.7 ARP Messages

CACHE_CAPACITY_NORMAL: The %s neighbor cache for %s has dropped below its configured capacity for %s entries (%d)

Severity: Warning

Explanation: [The system dropped below the configured capacity for the number of entries for the specified neighbor cache. It will resume caching additional neighbor address resolutions.]

Recommended Action: No action is required – this message is for information only.

CACHE_CAPACITY_REACHED: The %s neighbor cache for %s has reached its configured capacity for %s entries (%d)

Severity: Warning

Explanation: [The system reached the configured capacity for the number of entries in the specified neighbor cache. It will not cache additional neighbor address resolutions.]

Recommended Action: [To solve the issue, clear the specified neighbor cache of undesired entries.]

DUPLICATE_ADDRESS_WITH_INTF: A host on interface %s with MAC address %s and IP address %a is using an IP address configured on an interface in VRF %s

Severity: Warning

Explanation: The switch detected a host using an IP address that is configured on an interface on the switch.

Recommended Action: Please check the host IP address and IP address configurations of interfaces on the switch.

RELOAD_HITLESS_NEIGHBOR_STATE_RESTITUTION_TIMEOUT: Failed to restore state for %d ARP and IPv6 Neighbor entries.

Severity: Warning

Explanation: This may result in some traffic disruption during the hitless reload.

Recommended Action: No action is required – this message is for information only.

2.8 ASPATH Messages

ACCESS_LIST_IMPORT_FAILED: Failed to import ip as-path access-list %s from source %s. Possible reason: %s. Please check source validity.

Severity: Error

Explanation: An as-path access-list is set up with an import source URL to load its list of as-path access-list entries. The source is either a local file or a remote URL and must be available at the time of import. The entries in the file must conform to the as-path access-list entry syntax.

Recommended Action: Check the URL and content of the file

ACCESS_LIST_IMPORT_SUCCEEDED: Imported ip as-path access-list %s from source %s.

Severity: Info

Explanation: An as-path access-list is set up with an import source URL to load its list of as-path access-list entries. The source is either a local file or a remote URL and must be available at the time of import. The entries in the file must conform to the as-path access-list entry syntax.

Recommended Action: No action required

2.9 BFD Messages

HARDWARE_ACCELERATION_DISABLED: Hardware accelerated BFD is disabled

Severity: Info

Explanation: Hardware accelerated BFD is enabled if it is supported on the system and if there are hardware acceleration eligible BFD sessions.

Recommended Action: No action is required – this message is for information only.

HARDWARE_ACCELERATION_ENABLED: Hardware accelerated BFD is enabled

Severity: Info

Explanation: Hardware accelerated BFD is enabled if it is supported on the system and if there are hardware acceleration eligible BFD sessions.

Recommended Action: No action is required – this message is for information only.

HARDWARE_RESOURCE_FULL: Hardware resource %s reached its maximum capacity of %d hardware accelerated BFD sessions

Severity: Info

Explanation: Maximum hardware BFD resource capacity was reached. Any other BFD session on this resource will not be hardware accelerated.

Recommended Action: No action is required – this message is for information only.

HARDWARE_RESOURCE_NORMAL: Next hardware acceleration eligible BFD session on resource %s may be hardware accelerated

Severity: Info

Explanation: Hardware resource can now accept hardware accelerated BFD sessions. The next eligible BFD session on this resource will be hardware accelerated.

Recommended Action: No action is required – this message is for information only.

INCOMPATIBLE_DETECT_MULT: Received a BFD detect multiplier from peer %s of %d, outside of the supported range of 3-50.

Severity: Notice

Explanation: Remote peer's BFD interval is out of the supported range of 3-50.

Recommended Action: No action required.

INCOMPATIBLE_ECHO_RX_INTERVAL: Received a BFD echo rx interval from peer %s of %u milliseconds, outside of the supported range of 50-60000 milliseconds.

Severity: Notice

Explanation: Remote peer's BFD echo rx interval is outside of the supported range of 50-60000 milliseconds.

Recommended Action: No action required.

INCOMPATIBLE_MODE: Received an incompatible BFD mode from peer %s (local BFD mode %s)

Severity: Warning

Explanation: Remote peer's BFD mode is incompatible with local BFD mode

Recommended Action: Please match the remote peer's BFD mode with local configuration

INCOMPATIBLE_RX_INTERVAL: Received a BFD rx interval from peer %s of %u milliseconds, outside of the supported range of 50-60000 milliseconds.

Severity: Notice

Explanation: Remote peer's BFD rx interval is outside of the supported range of 50-60000 milliseconds.

Recommended Action: No action required.

INCOMPATIBLE_TX_INTERVAL: Received a BFD tx interval from peer %s of %u milliseconds, outside of the supported range of 50-60000 milliseconds.

Severity: Notice

Explanation: Remote peer's BFD tx interval is outside of the supported range of 50-60000 milliseconds.

Recommended Action: No action required.

INTERFACE_NOENT: Invalid BFD peer Request by protocol: %s for peer: %d. No such interface

Severity: Error

Explanation: A Bfd application has requested a Bfd peer add for an interface that does not exist

Recommended Action: No action is required – this message is for information only.

IP_CONFLICT: Local IP address %s same as peer IP address for peer %s

Severity: Warning

Explanation: BFD session local IP address is the same as peer's IP address

Recommended Action: Please configure different local and peer IP addresses

PER_LINK_CONFIG_CHANGE: Interface %s bfd per-link changed from %s to %s, peer sessions reconfigured

Severity: Notice

Explanation: Interface bfd per-link config changed, the BFD session was reconfigured to match new config

Recommended Action: No action is required – this message is for information only.

PER_LINK_ECHO_CONVERGED: peer %s BFD per-link echo converged

Severity: Notice

Explanation: BFD per-link echo has converged on the specified port-channel. The peer system ready for SSO if other port-channels with BFD per-link echo have also converged.

Recommended Action: No action required

PER_LINK_ECHO_FAILED_TO_CONVERGE: peer %s BFD per-link echo failed to converge in %d seconds

Severity: Warning

Explanation: BFD agent will continue attempting per-link echo converge. Currently the peer system is not ready for SSO

Recommended Action: To avoid BFD per-link flaps, hold off any planned SSO on the peer system until BFD per-link echo convergence. Please shutdown any unstable links in the port-channel. Please avoid round robin hashing policy at the peer side

PER_LINK_ECHO_INITIATED: peer %s BFD per-link echo bringup initiated

Severity: Notice

Explanation: BFD per-link echo bringup initiated. Currently the peer system is not ready for SSO

Recommended Action: To avoid BFD per-link flaps, hold off any planned SSO on the peer system until BFD per-link echo convergence. Please shutdown any unstable links in the port-channel. Please avoid round robin hashing policy at the peer side

ROUTE_UPDATE_FAILED: %s route %s for interface %s in VRF %s failed

Severity: Error

Explanation: An error occurred when trying to add or remove route for per-link rfc-7130

Recommended Action: Delete and reconfigure per-link rfc-7130 for the interface

STALE_APP_REG: Bfd registration already present for peer: %s, app: %s

Severity: Warning

Explanation: Trying to add a duplicate Bfd peer request for an application

Recommended Action: No action required

STATE_CHANGE: peer %s changed state from %s to %s diag %s

Severity: Notice

Explanation: Peer's BFD state has changed

Recommended Action: No action required

2.10 BFN Messages

APP_FILTER_HW_RESOURCE_FULL: Unable to allocate segment %s due to hardware resource exhaustion

Severity: Error

Explanation: The specified segment was not programmed in the hardware.

Recommended Action: To solve this issue, reduce the number of segments.

APP_FILTER_RPF_HW_RESOURCE_FULL: Unable to allocate subscriber segment %s due to hardware resource exhaustion for RPF table

Severity: Error

Explanation: The specified segment was not programmed in the hardware.

Recommended Action: To solve this issue, reduce the number of subscriber segments.

APP_FILTER_SERVICE_SEGMENTS_RESOURCE_FULL: Unable to allocate service side segment %s due to hardware resource exhaustion

Severity: Error

Explanation: The specified segment was not programmed in the hardware. The switch only supports %d service side segments. This number was exceeded leading to hardware resource exhaustion.

Recommended Action: To solve this issue, reduce the number of service side segments.

CENTRAL_POST_FAILURE: Unable to initialize chip %s due to Power-On-Self-Test %s failure

Severity: Error

Explanation: The system cannot be initialized

Recommended Action: Please contact support

COUNTERS_COUNTER_RESOURCE_FULL: Unable to allocate counter for VLAN %d due to hardware resource exhaustion. Counter for this VLAN will not be available

Severity: Warning

Explanation: The specified VLAN counter could not be allocated in the switching ASIC due to hardware resource exhaustion. Statistics will not be available for this VLAN while the system is in this state

Recommended Action: No action is required – this message is for information only.

COUNTERS_COUNTER_RESOURCE_NORMAL: Statics counter for VLAN %d was successfully programmed in hardware.

Severity: Warning

Explanation: The specified VLAN counter was successfully allocated in the switching ASIC. Normal statistic collection should resume for this VLAN.

Recommended Action: No action is required – this message is for information only.

COUNTERS_OVERFLOW_ERROR: Received wrong hardware counter value for interface %s.

Severity: Error

Explanation: The interface counters may not be accurate

Recommended Action: No action is required – this message is for information only.

GRE_DECAP_DUPLICATE_KEY_IGNORED: The specified GRE key to forwarding VRF mapping [%u -> %s] in decap-group %s was ignored as the same key already maps to a different VRF in decap-group %s.

Severity: Warning

Explanation: The specified GRE key to forwarding VRF mapping could not be programmed into the switching chip.

Recommended Action: Unconfigure this mapping and use a new GRE key in decap-group %s.

INTERNAL_BUFFER_ERROR: An internal buffer accounting error was detected and corrected.

Severity: Error

Explanation: An internal buffer accounting error was detected and corrected causing approximately 100ms of traffic loss.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

L2_HW_RESOURCE_FULL: Unable to program the L2 tables for MAC address %s in VLAN %d due to hardware resource exhaustion

Severity: Warning

Explanation: The specified MAC address could not be programmed into the switching ASIC due to hash collisions in a bucket. Packets destined to the address will be flooded.

Recommended Action: Reduce the number of L2 table entries that need to be programmed into the switching ASIC. One or more of the following steps might be helpful: 1. Reduce the number of static mac entries. 2. Clear dynamic mac table entries. 3. Introduce additional layer 3 boundaries to reduce the number of MAC addresses. Please contact your technical support representative if you need additional assistance.

L2_HW_RESOURCE_NORMAL: All MAC addresses are programmed in hardware.

Severity: Warning

Explanation: The switch was able to program all the MAC addresses in hardware.

Recommended Action: No action is required – this message is for information only.

MIRRORING_BUFID_ALLOC_ERROR: Unable to add mirror source %s due to hardware resource limitation

Severity: Warning

Explanation: The latest configured mirror source is not programmed in hardware

Recommended Action: Reduce the number of mirror sessions, or sources

MIRRORING_EGRESS_MIRROR_SESSION_HW_RESOURCE_FULL: Unable to program egressMirrorSession Table entry for src intf %s due to hardware resource exhaustion

Severity: Warning

Explanation: The mirror session entry could not be programmed and no mirroring action will take place for this source interface

Recommended Action: Reduce the number of mirror sessions or mirror ACLs

MIRRORING_INGRESS_MIRROR_SESSION_HW_RESOURCE_FULL: Unable to program ingressMirrorSession Table entry for src intf %s due to hardware resource exhaustion

Severity: Warning

Explanation: The mirror session entry could not be programmed and no mirroring action will take place for this source interface

Recommended Action: Reduce the number of mirror sessions or mirror ACLs

MIRRORING_RID_ALLOC_ERROR: Unable to add mirror destination %s to session %s due to hardware resource limitation

Severity: Warning

Explanation: The latest configured mirror destination is not programmed in hardware

Recommended Action: Reduce the number of mirror sessions, or destinations

MIRRORING_XFORM_MGR_ERROR: Unable to apply mirror ACL for mirror session %s due to hardware resource limitation

Severity: Warning

Explanation: The latest configured ACL is discarded while the previously applied ACL, if any, remains operational

Recommended Action: Reduce the number of rules or ACLs

MIRROR_PACKET_ENCAP_HW_RESOURCE_FULL: Unable to program mirrorPacketEncap Table entry for mirror session %u with destination %s due to hardware resource exhaustion

Severity: Warning

Explanation: The mirror packet encap entry could not be programmed and the mirroring action will be incorrect for this destination interface

Recommended Action: Reduce the number of mirror sessions

MTU_ID_RESOURCE_FULL: Unable to allocate a hardware index for L3 MTU %d for interface %s due to hardware resource exhaustion. Instead it is now programmed to use L3 MTU %d

Severity: Warning

Explanation: The number of unique L3 MTU values in the system are limited to 4 and all of them have been used. The interface has been allocated minimum L3 MTU in the switch. But the running-config will continue to show the configured value

Recommended Action: Reuse one of the existing L3 MTU values

MTU_ID_RESOURCE_NORMAL: Hardware index resource for L3 MTU is normal

Severity: Info

Explanation:

Recommended Action: No action is required – this message is for information only.

NAT_DUPLICATE_ENTRY: Found unexpected duplicate NAT rules for address %s

Severity: Info

Explanation: Found an unexpected duplicate NAT rule for address, which could be caused by a misconfiguration

Recommended Action: No action is required – this message is for information only.

NAT_FLOW_RANGE_OVERLAP: Detected two overlapping NAT flow entries in profile %s between profile/match %s/%s and %s/%s. NAT flow entry: %s.

Severity: Info

Explanation: There are two overlapping NAT flow entries defined in two separate policies. Packet traffic cannot be forwarded as expected because only one of the two entries can be hit. The NAT flow configuration should be modified to avoid the overlap.

Recommended Action: No action is required – this message is for information only.

NAT_FULL_CONE_RANGE_OVERLAP: Detected two overlapping full cone NAT pool ranges, %s and %s

Severity: Info

Explanation: There are two NAT pool ranges configured for full cone entries with overlapping range. The configuration must be modified in order for the NAT forwarding to work correctly

Recommended Action: No action is required – this message is for information only.

NAT_TWICE_DUPLICATE_ENTRY: Found unexpected duplicate NAT rules for entry %s:%d, %s:%d, vrf %d

Severity: Info

Explanation: Found an unexpected duplicate NAT rule for address, which could be caused by a misconfiguration

Recommended Action: No action is required – this message is for information only.

NAT_UNSUPPORTED_FULL_CONE_SNAT_ACL: Unsupported protocol %d used in dynamic SNAT ACL : Source:%s Destination:%s Protocol:%d Source Port:%s Destination Port %s

Severity: Error

Explanation: The dynamic SNAT ACL configuration contains protocol rules that are unsupported for fullcone operation. The configuration must be fixed for it to take effect.

Recommended Action: Remove the described access rules. Only UDP protocol access list rules are allowed with this feature.

QOS_INTF_CPU_POLICER_BURST_UNIT_NOT_SUPPORTED: Unable to program the policer profile %s on interface %s because interface CPU policers do not support bytes burst rates on this platform.

Severity: Warning

Explanation: The specified policer profile could not be programmed on the specified interface. Interface CPU policers only support packets burst rates on this platform. The policer configuration for the specified interface has been reset.

Recommended Action: Apply a different policer profile with a burst unit in packets on the specified interface.

QOS_INTF_CPU_POLICER_HW_RESOURCE_FULL: Unable to program the policer profile %s on interface %s due to hardware resource exhaustion.

Severity: Warning

Explanation: The switch failed to program the specified policer profile configuration on the specified interface for CPU traffic policing. This occurred because the hardware resources used to perform this action are exhausted.

Recommended Action: Remove some of the entries configured with the policer profile PROFILE cpu command to make room for the new entry being configured.

QOS_INTF_CPU_POLICER_RATE_UNIT_NOT_SUPPORTED: Unable to program the policer profile %s on interface %s because interface CPU policers do not support bytes per second (bps) rates on this platform.

Severity: Warning

Explanation: The specified policer profile could not be programmed on the specified interface. Interface CPU policers only support packets per second (pps) rates on this platform. The policer configuration for the specified interface has been reset.

Recommended Action: Apply a different policer profile with a rate unit in packets per second (pps) on the specified interface.

QOS_INTF_DATA_POLICER_BURST_UNIT_NOT_SUPPORTED: Unable to program the policer profile %s on interface %s because interface %s policers do not support packets burst rates on this platform.

Severity: Warning

Explanation: The specified policer profile could not be programmed on the specified interface. Interface ingress and egress policers only support bytes burst rates on this platform. The policer configuration for the specified interface has been reset.

Recommended Action: Apply a different policer profile with a burst unit in bytes on the specified interface.

QOS_INTF_DATA_POLICER_RATE_UNIT_NOT_SUPPORTED: Unable to program the policer profile %s on interface %s because interface %s policers do not support packets per second (pps) rates on this platform.

Severity: Warning

Explanation: The specified policer profile could not be programmed on the specified interface. Interface ingress and egress policers only support bytes per second (bps) rates on this platform. The policer configuration for the specified interface has been reset.

Recommended Action: Apply a different policer profile with a rate unit in bytes per second (bps) on the specified interface.

SDK_ERROR: Error in the bf SDK: %s

Severity: Error

Explanation: Received an error notification from the bf SDK

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SFLOW_BUFID_ALLOC_ERROR: Unable to enable sflow due to hardware resource limitation

Severity: Warning

Explanation: The latest configured mirror source is not associated with mirror buffer for supporting sflow in the hardware

Recommended Action: Reduce the number of mirror sessions, or sources

SLICE_CPU0_LINK_DOWN: The CPU link has gone down

Severity: Warning

Explanation: Traffic going to CPU will be impacted

Recommended Action: No action is required – this message is for information only.

SLICE_CPU0_OPERSTATUS_DOWN: The operstatus of the CPU link has gone down

Severity: Warning

Explanation: Traffic going to CPU will be impacted

Recommended Action: No action is required – this message is for information only.

SLICE_UNEXPECTED_PCIE_SPEED: The PCIe link to the switching ASIC settled in an unexpected speed

Severity: Warning

Explanation: Some correctable errors might be detected on the PCIe root port before the link speed has been corrected

Recommended Action: No action is required – this message is for information only.

SWITCH_CONF_ERROR: There was an error in the provided switch.conf for profile %s: %s.

Severity: Warning

Explanation: If a switch.conf file is provided that isn't valid JSON or have the expected fields, BfnSliceAgent will restart until the switch.conf file is corrected

Recommended Action: Correct the switch.conf file.

TM_QUEUE_RESERVED_INVALID: Request to reserve %d buffers of 80 bytes each for %s traffic-manager cannot be satisfied.

Severity: Error

Explanation: The number of cells requested exceeds available memory.

Recommended Action: Reduce the amount of memory that should be reserved by reconfiguring the traffic-manager profiles.

TM_QUEUE_RESERVED_NORMAL: Reserved buffers programmed in %s traffic-manager

Severity: Info

Explanation: The switch was able to reserve requested memory.

Recommended Action: No action is required – this message is for information only.

TRANSCEIVER_MODE_CHANGE: Change in interface %s configuration from %s to %s, the BfnSliceAgent will restart.

Severity: Info

Explanation: When a multi-lane speed change is initiated on a port, the switch ASIC must be reconfigured, requiring the BfnSliceAgent to restart.

Recommended Action: This behavior is expected.

TUNNEL_GLOBAL_FIELDS_RESOURCE_FULL: Unable to program global fields for vxlan tunnel due to hardware resource exhaustion

Severity: Warning

Explanation: The specified global fields could not be programmed into the switching ASIC.

Recommended Action: Reduce the number of global field entries that need to be programmed into the switching ASIC.

TUNNEL_VNI_HW_RESOURCE_FULL: Unable to program tunnel vni table entry for vlan %d vni %u due to hardware resource exhaustion

Severity: Warning

Explanation: The specified vlan to vni mapping could not be programmed into the switching ASIC. Packets belonging to this vlan will not be forwarded into the vxlan tunnel.

Recommended Action: Reduce the mnumber of vlan to vni mapping entries that need to be programmed into the switching ASIC.

VLAN_TAG_CONFLICT: Unable to program %s with VLAN tag %d on interface %s because the same VLAN tag is already in use by a %s.

Severity: Error

Explanation: To resolve this conflict,

Recommended Action: please remove both the conflicting VLAN mapping and subinterface configurations and then reconfigure only the VLAN mapping or subinterface that you want to work.

VNI_QOS_EGRESS_METER_COUNTER_HW_RESOURCE_FULL: Unable to program egress meter counter table entry for VLAN %d due to hardware resource exhaustion.

Severity: Warning

Explanation: The specified policer profile could not be attached to the counter table. Counters for attached policer profile for this VLAN will not be available.

Recommended Action: Reduce the number of attached policer profile entries that needed to be programmed into the switching chip.

VNI_QOS_EGRESS_METER_HW_RESOURCE_FULL: Unable to program egress meter table entry for VLAN %d due to hardware resource exhaustion.

Severity: Warning

Explanation: The specified policer profile could not be attached to the meter table. Egress traffic belonging to this VLAN will not be metered.

Recommended Action: Reduce the number of attached policer profile entries that needed to be programmed into the switching chip.

VNI_QOS_INGRESS_METER_COUNTER_HW_RESOURCE_FULL: Unable to program ingress meter counter table entry for VLAN %d due to hardware resource exhaustion.

Severity: Warning

Explanation: The specified policer profile could not be attached to the counter table. Counters for attached policer profile for this VLAN will not be available.

Recommended Action: Reduce the number of attached policer profile entries that needed to be programmed into the switching chip.

VNI_QOS_INGRESS_METER_HW_RESOURCE_FULL: Unable to program ingress meter table entry for VLAN %d due to hardware resource exhaustion.

Severity: Warning

Explanation: The specified policer profile could not be attached to the meter table. Ingress traffic belonging to this VLAN will not be metered.

Recommended Action: Reduce the number of attached policer profile entries that needed to be programmed into the switching chip.

VTEP_SIP_HW_RESOURCE_FULL: Unable to program the L2 table for tunnel SIP validation entry %s due to hardware resource exhaustion

Severity: Warning

Explanation: The specified tunnel SIP could not be programmed into the switching ASIC because the hardware table reached capacity. Incoming packets with this address as the source IP will be dropped

Recommended Action: Reduce the number of SIP validation entries that need to be programmed into the switching ASIC. This can be achieved by decreasing the number of unique VTEPs with SIP validation enabled

VTEP_SIP_HW_RESOURCE_NORMAL: All SIP validation entries are programmed in hardware

Severity: Warning

Explanation: The switch was able to program all source IP addresses that have SIP validation enabled

Recommended Action: No action is required – this message is for information only.

VXLAN_INTF_MAC_REWRITE_TABLE_FULL: Failed to program VXLAN forwarding source MAC address rewrite action for VLAN ID: %s due to hardware resource exhaustion.

Severity: Warning

Explanation: The switch failed to program the hardware entry to perform a source MAC address rewrite action for VXLAN forwarded packets matching the specified VLAN ID. This occurred because the hardware resources used to perform this action are exhausted.

Recommended Action: Remove some of the entries configured with the vxlan forwarding match local-interface <VTI> vni <VNI> action rewrite src-mac <M> to make room for the new entry being configured.

VXLAN_INVALID_VNI_IGNORED: The specified VXLAN Network Identifier value of %u was ignored as it's greater than the allowed range of 1-16777215.

Severity: Warning

Explanation: The specified VNI to VLAN mapping could not be programmed into the switching ASIC. Packets belonging to this VNI will be dropped.

Recommended Action: Use VNI values in the range of 1-16777215.

VXLAN_IPV6_TUNNEL_MAPPING_DATA_RESOURCE_FULL: Unable to program VXLAN IPv6 tunnel destination address %s due to hardware resource exhaustion

Severity: Warning

Explanation: The specified VXLAN IPv6 tunnel destination address was not programmed in hardware. The switch only supports 256 unique values for the top 48 bits of the IPv6 tunnel destination. This number was exceeded leading to hardware resource exhaustion.

Recommended Action: Select IPv6 tunnel destination addresses in such a way that the number of unique values for the top 48 bits is less than 256.

VXLAN_IPV6_TUNNEL_MAPPING_DATA_RESOURCE_NORMAL: All the IPv6 tunnel destination addresses are programmed in hardware.

Severity: Info

Explanation: The switch was able to program all the IPv6 tunnel destination addresses in hardware.

Recommended Action: No action is required – this message is for information only.

VXLAN_MAC_REWRITE_TABLE_FULL: Failed to program VXLAN forwarding source MAC address rewrite action for VRF: %s source IP: %s due to hardware resource exhaustion.

Severity: Warning

Explanation: The switch failed to program the hardware entry to perform a source MAC address rewrite action for VXLAN forwarded packets matching the specified VRF and source IPv4 address. This occurred because the hardware resources used to perform this action are exhausted.

Recommended Action: Remove some of the entries configured with the vxlan forwarding match vrf <VRF> src-ip <IP> action rewrite src-mac <M> to make room for the new entry being configured.

VXLAN_UNSUPPORTED_IPV6_TUNNEL_DESTINATION: Ignoring unsupported VXLAN IPv6 tunnel destination address %s.

Severity: Warning

Explanation: The specified VXLAN IPv6 tunnel destination address was not programmed in hardware as it was found to be in an unsupported format. A non zero value is not supported in the bits marked 0 in the following IPv6 address mask: ffff:fff:fff:fff:0000:000f:fff:fff.

Recommended Action: Use a valid IPv6 address for the VXLAN tunnel destination. A non zero value is not supported in the bits marked 0 in the following IPv6 address mask: ffff:fff:fff:fff:0000:000f:fff:fff.

VXLAN_VNI_FORMAT_CHANGED: The VXLAN Network Identifier format changed from %s to %s.

Severity: Warning

Explanation: The VXLAN Network Identifier format changed from %s to %s. Restarting BfnTunnel agent.

Recommended Action: No action is required – this message is for information only.

VXLAN_VNI_RESOLUTION_HW_RESOURCE_FULL: Unable to program vxlanVniResolution table entry for vlan %d vni %u due to hardware resource exhaustion

Severity: Warning

Explanation: The specified vni to vlan mapping could not be programmed into the switching ASIC. Packets belonging to this vni will be dropped.

Recommended Action: Reduce the mnumber of vni to vlan mapping entries that need to be programmed into the switching ASIC.

2.11 BGP Messages

ADJCHANGE: peer %s old state %s event %s new state %s

Severity: Notice

Explanation: The given peer has moved into or out of the Established state. If it is not Established, then route exchange with the BGP peer is not possible.

Recommended Action: If the peering has gone down unexpectedly, check the physical connection between the devices and the configuration of the system, including IP and BGP, on both ends.

AFI_SAFI_GR_STALE_PATHS_DELETED: Deleted %d unrefreshed stale paths from peer %s for the address family %s

Severity: Warning

Explanation: BGP has deleted paths that the graceful restart procedure previously marked as stale because they were not relearned in time. Removal of those paths may impact traffic forwarding.

Recommended Action: Check to see whether stale path deletion reflects a need to adjust the configured graceful restart parameters.

AFI_SAFI_MAX_ACCEPTED_ROUTES_LIMIT: Peer %s has exceeded its configured maximum total number of accepted routes (%d) of address family %s; Put into idle state forever

Severity: Notice

Explanation: BGP has accepted more routes of this address family than it is configured to handle from this BGP peer. BGP route information is no longer being exchanged with peer, so no route additions or deletions will occur. Routing information may be incomplete, and may get further out of date.

Recommended Action: Determine whether the number of accepted BGP routes of this address family is reasonable. If not, try to reduce the number of routes of this being shared by your BGP peers, or apply policies to filter out more routes. If the number of routes is reasonable, increase the maximum-accepted-routes limit of this address family. After taking either of these actions issue the 'clear ip bgp *|<peer>' command, to reset the BGP peer connection.

AFI_SAFI_MAX_ACCEPTED_ROUTES_WARNING: Peer %s has exceeded its configured threshold for total number of accepted routes (%d) of address family %s

Severity: Notice

Explanation: Bgp has accepted more routes of this address family than its configured early warning limit for this BGP peer.

Recommended Action: Determine whether the number of accepted BGP routes of this address family is reasonable. If not, try to reduce the number of routes of this address family being shared by your BGP peers, or apply policies to filter out more routes. If the number of routes is reasonable, increase the maximum-accepted-routes limit of this address family. If the number of sessions continues to increase beyond the configured limit, this BGP peer will be put into an idle state.

AFI_SAFI_MAX_ADV_ROUTES_LIMIT: Number of routes advertised to peer %s has exceeded the configured maximum number of routes (%d) for address family %s; Put into idle state forever

Severity: Notice

Explanation: BGP has advertised more routes of this address family than it is configured for this BGP peer to receive. BGP route information is no longer being exchanged with peer, so no route additions or deletions will occur. Routing information may be incomplete, and may get further out of date.

Recommended Action: Determine whether the number of advertised BGP routes of this address family is reasonable. If not, then apply policies to filter out more routes for this address family. If the number of routes is reasonable, then increase maximum-advertised-routes limit for this address family. After taking either of these actions issue the 'clear ip bgp *|<peer>' command, to reset the BGP peer connection.

AFI_SAFI_MAX_ADV_ROUTES_WARNING: Number of routes advertised to peer %s has exceeded the configured threshold (%d) for address family %s;

Severity: Notice

Explanation: BGP has advertised more routes of this address family to this BGP peer than its configured early warning limit.

Recommended Action: Determine whether the number of advertised BGP routes of this address family is reasonable. If not, then apply policies to filter out more routes of this address family. If the number of routes is reasonable, then increase maximum-advertised-routes limit for this address family. If the number of routes of this address family continues to increase beyond the configured limit, this BGP peer will be put into an idle state.

AFI_SAFI_MAX_ROUTES_EARLY_WARNING: Number of paths received from peer %s has exceeded the configured early warning limit (%d) of address family %s

Severity: Notice

Explanation: Bgp has received more routes of this address family than its configured early warning limit for this BGP peer.

Recommended Action: If this warning persists, then determine whether the number of shared BGP routes of this address family is reasonable. If not, try to reduce the number of routes of this address family being shared by your BGP peers. If the number of routes is reasonable, increase the maximum-routes warning threshold of this address family.

AFI_SAFI_MAX_ROUTES_LIMIT: Peer %s has exceeded its configured maximum total number of routes (%d) of address family %s; Put into idle state forever

Severity: Notice

Explanation: BGP has received more routes of this address family than it is configured to handle from this BGP peer. BGP route information is no longer being exchanged with peer, so no route additions or deletions will occur. Routing information may be incomplete, and may get further out of date.

Recommended Action: Determine whether the number of shared BGP routes of this address family is reasonable. If not, try to reduce the number of routes of this address family being shared by your BGP peers. If the number of routes is reasonable, increase the maximum-routes limit of this address family. After taking either of these actions issue the 'clear ip bgp *|<peer>' command, to reset the BGP peer connection.

AFI_SAFI_MAX_ROUTES_RECOVER: Peer %s has managed to drop below its configured maximum total number of routes (%d) of address family %s; routing information is no longer being lost

Severity: Notice

Explanation: The number of routes of this address family from this BGP peer is now below the limit, and we are exchanging routing information with the peer, again.

Recommended Action: Determine why the number of shared routes exceeded maximum-routes limit of this address family in the first place.

AFI_SAFI_MAX_ROUTES_WARNING: Peer %s has exceeded its configured maximum total number of routes (%d) of address family %s; ROUTING INFORMATION IS BEING LOST

Severity: Notice

Explanation: BGP has received more routes of address family than it is configured to handle from this BGP peer. Routing information may be incomplete, and may get further out of date. New routes will no longer be added until enough routes are deleted to fall below this limit.

Recommended Action: If this warning persists, then determine whether the number of shared BGP routes of this address family is reasonable. If not, try to reduce the number of routes of this address family being shared by your BGP peers. If the number of routes is reasonable, increase the maximum-routes limit of this address family.

ASPATH_MAX_PREPEND: ASPATH prepend exceeded max limit %d, ignoring extra prepend

Severity: Notice

Explanation: Exceeding the maximum prependable AS's causes the last setter to be ignored.

Recommended Action: Reduce the number of AS's to prepend in order to not exceed the limit.

ASPATH_MAX_PREPEND_LASTAS: Max prepend (%u) exceeded - reducing last AS prepend to %u

Severity: Notice

Explanation: Exceeding the maximum prependable AS's causes the ASPATH to be truncated.

Recommended Action: Reduce the number of AS's to prepend in order to not exceed the limit.

BAD_AS_NUMBER: Connection rejected from peer %s (VRF %s) due to bad AS %u

Severity: Error

Explanation: The AS number in the Open message does not match the configured remote AS number.

Recommended Action: If peering is expected, configure the AS number consistently.

CONVERGED: BGP in VRF %s has converged and its routes are in FIB

Severity: Notice

Explanation: BGP has converged after receiving the initial set of updates from peers (if any) and is now ready to advertise best path routes to peers

Recommended Action: No action is required – this message is for information only.

DISCARD_RXATTRIBUTES: Attribute(s) %s discarded for peer %s in address family %s

Severity: Info

Explanation: Received attribute discard is enabled and has discarded attributes in the given address family in an update from the given peer

Recommended Action: No action is required – this message is for information only.

DROP_TXUPDATE: Dropped updates for peer %s because a local Nexthop was not configured for AFI/SAFI %s/%s

Severity: Error

Explanation: A local address has not been configured for this peer for the Afi/Safi. Updates with route advertisements using nexthop-self could not be sent out as they require a valid nexthop.

Recommended Action: Configure a local address that can be used as a nexthop in routes advertised to this peer, for the Afi/Safi.

DROP_TXUPDATE_EXCEEDED_NUMLABELS: Dropped updates for peer %s because the number of labels exceed the receive capability of %d advertised by the peer for AFI/SAFI %s/%s

Severity: Error

Explanation: The advertised capability of the peer to receive multiple labels is less than the number of labels in the update and as a result some routes could not be sent to the peer.

Recommended Action: Check peer configurations

DROP_UPDATE_LARGE_ATTR: Dropped updates for peer %s for AFI/SAFI %s/%s due to oversized path attributes

Severity: Error

Explanation: Updates for paths whose serialized length exceeds the BGP update maximum size (4096 octets) are sent out as withdrawals instead of positive advertisements. AS path prepend, peer specific outbound policy, export extended communities, or four-byte AS configuration may contribute to the size of the serialized path attributes.

Recommended Action: Look for BGP routes with large AS paths or large number of communities and modify configuration to reduce the attribute data that needs to be encoded in the BGP update.

DYNAMIC_PEER_REJECTED_OVER_LIMIT: Rejected connection from %s to avoid exceeding the dynamic peer limit (%u)

Severity: Warning

Explanation: BGP has received more dynamic connection requests than the configured listen limit

Recommended Action: If this warning persists, then determine whether the number of dynamic peer requests is reasonable. If the number of dynamic peer requests is reasonable, then increase the listen limit to allow more dynamic peer connections.

GRACEFUL_RESTART_TIMEOUT: Deleting stale routing information from peer %s

Severity: Notice

Explanation: Session with graceful restarting speaker has not been established within the advertised restart time. Deleting the routes from this peer.

Recommended Action: Check to see why the peer session did not get re-established.

HOLDTIME_REJECTED: Hold time %d seconds received from peer %s is less than the required minimum %d seconds

Severity: Info

Explanation: The hold time received from a peer exceeds the locally configured minimum value.

Recommended Action: Review and fix the hold timer configuration for this BGP session on the two speakers.

IF_MAXACCEPTEDROUTESLIMIT: Peer %s has exceeded its configured maximum total number of accepted routes (%d); Put into idle state forever

Severity: Notice

Explanation: BGP has accepted more routes than it is configured to handle from this BGP peer. BGP route information is no longer being exchanged with peer, so no route additions or deletions will occur. Routing information may be incomplete, and may get further out of date.

Recommended Action: Determine whether the number of accepted BGP routes is reasonable. If not, then, try to reduce the number of routes being shared by your BGP peers, or apply policies to filter out more routes. If the number of routes is reasonable, then increase the maximum-accepted-routes limit. After taking either of these actions issue the 'clear ip bgp *|<peer>' command, to reset the BGP peer connection.

IF_MAXROUTESEARLYWARNING: Number of paths received from peer %s has exceeded the configured early warning limit (%d)

Severity: Notice

Explanation: Bgp has received more routes than its configured early warning limit for this BGP peer.

Recommended Action: If this warning persists, then determine whether the number of shared BGP routes is reasonable. If not, then, try to reduce the number of routes being shared by your BGP peers. If the number of routes is reasonable, then increase the maximum-routes warning threshold.

IF_MAXROUTESLIMIT: Peer %s has exceeded its configured maximum total number of routes (%d); Put into idle state forever

Severity: Notice

Explanation: BGP has received more routes than it is configured to handle from this BGP peer. BGP route information is no longer being exchanged with peer, so no route additions or deletions will occur. Routing information may be incomplete, and may get further out of date.

Recommended Action: Determine whether the number of shared BGP routes is reasonable. If not, then, try to reduce the number of routes being shared by your BGP peers. If the number of routes is reasonable, then increase the maximum-routes limit. After taking either of these actions issue the 'clear ip bgp *|<peer>' command, to reset the BGP peer connection.

IF_MAXROUTESRECOVER: Peer %s has managed to drop below its configured maximum total number of routes (%d); routing information is no longer being lost

Severity: Notice

Explanation: The number of routes from this BGP peer is now below the limit, and we are exchanging routing information with the peer, again.

Recommended Action: Determine why the number of shared routes exceeded maximum-routes limit in the first place.

IF_MAXROUTESRESTART: Peer %s has exceeded its configured maximum total number of routes (%d); In idle state; will restart in %d minutes

Severity: Notice

Explanation: BGP has received more routes than it is configured to handle from this BGP peer. Routing information may be incomplete, and may get further out of date. Route information is no longer being exchanged with peer, so no route deletions or additions will occur until the peer connection is restarted.

Recommended Action: Determine whether the number of shared BGP routes is reasonable. If not, then, try to reduce the number of routes being shared by your BGP peers. If the number of routes is reasonable, then increase the maximum-routes limit. Until you take one of these actions the BGP peer connection will continue to get into this state and will continue to be cleared periodically.

IF_MAXROUTESWARNING: Peer %s has exceeded its configured maximum total number of routes (%d); ROUTING INFORMATION IS BEING LOST

Severity: Notice

Explanation: BGP has received more routes than it is configured to handle from this BGP peer. Routing information may be incomplete, and may get further out of date. New routes will no longer be added until enough routes are deleted to fall below this limit.

Recommended Action: If this warning persists, then determine whether the number of shared BGP routes is reasonable. If not, then, try to reduce the number of routes being shared by your BGP peers. If the number of routes is reasonable, then increase the maximum-routes limit.

IF_MAX_ACCEPTED_ROUTES_WARNING: Peer %s has exceeded its configured threshold for total number of accepted routes (%d)

Severity: Notice

Explanation: Bgp has accepted more routes than its configured early warning limit for this BGP peer.

Recommended Action: Determine whether the number of accepted BGP routes is reasonable. If not, then, try to reduce the number of routes being shared by your BGP peers, or apply policies to filter out more routes. If the number of routes is reasonable, then increase the maximum-accepted-routes limit. If the number of sessions continues to increase beyond the configured limit, this BGP peer will be put into an idle state.

IGNORED_LU_PATH_LARGE_LABEL_STACK: Ignored LU path (from peer %s) due to large label stack

Severity: Error

Explanation: An LU update had a label stack that was larger than what the platform can support, so dropping it.

Recommended Action: Look for BGP LU routes with large label stacks and modify configuration/topology to reduce the number of labels in the label stack.

INVALID_ZERO_ASN: peer %s has sent invalid ASN 0 in the %s path attribute

Severity: Notice

Explanation: BGP has received an invalid ASN 0 in the AS4_PATH/AS4_AGGREGATOR path attribute from this peer

Recommended Action: Check to see why the peer sent ASN 0 in the AS4_PATH path attribute

LLGR_WITHOUT_GR: Long lived graceful restart negotiation failed as peer %s has not negotiated graceful restart capability.

Severity: Notice

Explanation: Long lived graceful restart requires graceful restart to be negotiated between the peers.

Recommended Action: Enable graceful restart or graceful restart helper on the peer.

LS_CONFLICTING_ID_FOR_MULTIPLE_INSTANCES: BGP Link State cannot be enabled on %s instance %s due to conflicting identifier on %s

Severity: Warning

Explanation: Every IGP instance exported by BGP Link State should have a unique identifier.

Recommended Action: Fix the identifier configured on different BGP Link State instances to be unique.

MAC_VRF_CONFLICT: VLAN %u assigned to multiple MAC-VRFs in BGP configuration

Severity: Error

Explanation: A VLAN is assigned to multiple BGP VLAN bundles, or is configured both standalone and as part of a bundle

Recommended Action: Adjust the local BGP configuration

MAC_VRF_CONFLICT_RECOVERY: VLAN %u is no longer assigned to multiple MAC-VRFs

Severity: Error

Explanation: A VLAN that was previously configured to be part of multiple MAC-VRFs now belongs to at most one

Recommended Action: No action is required – this message is for information only.

MAINTENANCE_MODE_ENTER: peer %s (VRF %s AS %d) is placed under maintenance

Severity: Info

Explanation: The given peer is now under maintenance

Recommended Action: No action is required – this message is for information only.

MAINTENANCE_MODE_EXIT: peer %s (VRF %s AS %d) is taken out of maintenance

Severity: Info

Explanation: The given peer is now no longer under maintenance

Recommended Action: No action is required – this message is for information only.

MAINTENANCE_MODE_SEND_COMM: peer %s (VRF %s AS %d) is placed under maintenance without enabling send-community

Severity: Error

Explanation: The given peer is placed under maintenance with a route-map using community , however send-community is not enabled for the peer. This will prevent the community from being sent in the route updates

Recommended Action: Configure send-community for the peer

MALFORMED_PMSI_TUNNEL_ATTRIBUTE: Received an update with malformed PMSI tunnel attribute from peer %s

Severity: Error

Explanation: Received an update with PMSI tunnel attribute containing either undefined tunnel type or invalid tunnel identifier

Recommended Action: Examine the reason for peer sending a malformed PMSI tunnel attribute

MAXROUTES: BGP has exceeded its configured maximum total number of routes (%d); ROUTING INFORMATION IS BEING LOST

Severity: Notice

Explanation: BGP has received more routes than it is configured to handle. It will not accept any more routes. Routing information may be incomplete, and may get further out of date.

Recommended Action: Determine whether the number of shared BGP routes is reasonable. Then, either reduce the number of routes being shared by your BGP peers, or increase the maximum-routes limit. After taking either of these actions issue the 'clear ip bgp *|<peer>' command, to reset the BGP peer connection.

MONITORING_STATION_STATUS: Connection to monitoring station %s (VRF %s, address %s) is %s

Severity: Info

Explanation: Indicates connection status to the specified BMP monitoring station

Recommended Action: No action is required – this message is for information only.

NOTIFICATION: %s neighbor %s%s %d/%d (%s/%s%s)%s

Severity: Error

Explanation: A BGP notification message of length bytes was seen from/to the given neighbor, with code/subcode (string names s/s). Such messages notify a peer either about errors in the BGP session or (in the case of CEASE (ErrorCode=6)) request the session to terminate. If an Error notification is received, this message means a neighbor believes this machine sent an invalid BGP message. If sent, this message means this machine believes that a neighbor sent an invalid BGP message. Either the message was malformed, or it arrived at a time when it was not expected.

Recommended Action: Some messages (such as 'cease') require no action. Error messages (such as 'Message Header Error') can be symptomatic of some other BGP error. The data printed in the BGP-NOTIFICATION log entry may help a technical support person determine the underlying error.

ORR_ADD_PATH_BACKUP: Peer %s is configured with BGP optimal route reflection and send additional backup path, the combination is not supported; Put into idle state forever

Severity: Error

Explanation: The peer is configured with BGP optimal route reflection and send additional backup path, the combination is not supported. BGP route information is no longer being exchanged with peer, so no route additions or deletions will occur. Routing information may be incomplete and may get further out of date.

Recommended Action: Remove either "neighbor PEERIGROUP route-reflector-client optimal-route-reflection" or "neighbor PEERIGROUP additional-paths send backup" configuration from this peer or peer group.

ORR_CONFIGURATION_INCOMPLETE: Peer %s is configured with BGP optimal route reflection position %s that is either not configured or does not have one or more IGP prefixes configured; Put into idle state forever

Severity: Error

Explanation: The peer is configured with a BGP optimal route reflection position that is not configured, or does not have at least one IGP prefix configured. BGP route information is no longer being exchanged with peer, so no route additions or deletions will occur. Routing information may be incomplete and may get further out of date.

Recommended Action: Verify that "optimal-route-reflection position NAME" is configured and has at least one IGP prefix configured under it.

ORR_LINK_LOCAL_PEER_NOT_SUPPORTED: Peer %s is configured with BGP optimal route reflection that is not supported for link-local peers; Put into idle state forever

Severity: Error

Explanation: BGP optimal route reflection is not supported for link-local peers. BGP route information is no longer being exchanged with peer, so no route additions or deletions will occur. Routing information may be incomplete and may get further out of date.

Recommended Action: Remove "neighbor PEERIGROUP route-reflector-client optimal-route-reflection" configuration from this peer or peer group.

ORR_MAX_POSITION_LIMIT: Peer %s is configured with BGP optimal route reflection position %s that could not be assigned a numeric ID as the number of ORR positions exceeds the maximum (%u); Put into idle state forever

Severity: Error

Explanation: The number of BGP optimal route reflection positions configured exceeds the maximum supported, peers configured with positions that we could not assign a numeric ID to are put into idle state. BGP route information is no longer being exchanged with peer, so no route additions or deletions will occur. Routing information may be incomplete and may get further out of date.

Recommended Action: Check the number of ORR positions configured, including implicit positions per peer for peers configured with "neighbor PEERIGROUP route-reflector-client optimal-route-reflection peer-address".

ORR_PEER_ADDRESS_DYNAMIC_PEER_NOT_SUPPORTED: Peer %s is configured with BGP optimal route reflection position peer-address that is not supported for dynamic peers; Put into idle state forever

Severity: Error

Explanation: BGP optimal route reflection position peer-address is not supported for dynamic peers. BGP route information is no longer being exchanged with peer, so no route additions or deletions will occur. Routing information may be incomplete and may get further out of date.

Recommended Action: Remove "neighbor PEERIGROUP route-reflector-client optimal-route-reflection peer-address" configuration from this peer or peer group.

PEER_CLEAR: BGP %s by %s on %s (%s)%s

Severity: Notice

Explanation: BGP peering was reset by CLI command

Recommended Action: No action is required – this message is for information only.

RFD_CONFIG_CHANGE: Route flap damping configuration changed for peer %s policy %s

Severity: Info

Explanation: Paths from the peer are re-evaluated because of RFD configuration change. Additional paths may be suppressed or reused after re-evaluation.

Recommended Action: No action is required – this message is for information only.

RFD_PATH_REUSED: Path %s from peer %s is reused

Severity: Warning

Explanation: Path penalty has decayed below the reuse threshold.

Recommended Action: No action is required – this message is for information only.

RFD_PATH_REUSE_MONITOR: Monitored path %s from peer %s has decayed below the reuse threshold

Severity: Info

Explanation: Path penalty has decayed below the reuse threshold (monitor mode).

Recommended Action: No action is required – this message is for information only.

RFD_PATH_SUPPRESSED: Path %s from peer %s is suppressed

Severity: Warning

Explanation: Path flapping has caused the path to exceed the suppression penalty threshold. It will remain suppressed until the penalty falls below the reuse threshold.

Recommended Action: No action is required – this message is for information only.

RFD_PATH_SUPPRESSION_MONITOR: Monitored path %s from peer %s has exceeded suppression threshold

Severity: Info

Explanation: Path flapping has caused the path to exceed the suppression penalty threshold but the path is not suppressed (monitor mode).

Recommended Action: No action is required – this message is for information only.

SAME_RT_FOR_MULTIPLE_MACVRF: %d MAC-VRFs have the same import route target

Severity: Warning

Explanation: Configuring multiple MAC-VRFs to import routes with the same RT will replicate the same routes in those MAC-VRFs. Typically each MAC-VRF would import routes with a different RT.

Recommended Action: Typically each MAC-VRF should be associated with routes with unique RTs.

SRTE_IGNORED_SEGMENT_LIST_EXCEEDS_MSD: Ignored segment list with %u labels %s in candidate path with endpoint %s, color %u, distinguisher %u, from peer %s

Severity: Warning

Explanation: Received segment list exceeds the maximum software SID depth

Recommended Action: Candidate path needs to be modified such that the received segment list does not exceed the software MSD

SRTE_IGNORED_SEGMENT_LIST_UNSUPPORTED_SEGMENTS: Ignored segment list in candidate path with endpoint %s, color %u, distinguisher %u, from peer %s

Severity: Warning

Explanation: Received segment list contains at least one segment that is of an unsupported type

Recommended Action: Candidate path needs to be modified such that the received segment list contains only supported segment types

SRTE_POLICY_SEGMENT_LISTS_EXCEEDED: Number of segment lists(%u) in candidate path with endpoint %s, color %u, distinguisher %u from peer %s exceeds the maximum supported(%u)

Severity: Warning

Explanation: Received candidate path contains more than maximum supported segment lists

Recommended Action: Candidate path needs to be modified such it contains less than or equal to maximum supported segment lists

TRAFFICPOLICY_FIELD_SET_MAPPING_CONFLICT: IPv%u prefix field set %s has been assigned to multiple VRFs: %s

Severity: Error

Explanation: A Traffic Policy prefix field set is assigned to multiple BGP VRFs in order to be updated based on BGP routes.

Recommended Action: Adjust the local BGP configuration to associate the field set with at most one VRF.

TRAFFICPOLICY_FIELD_SET_MAPPING_CONFLICT_RECOVERY: IPv%u prefix field set %s is no longer assigned to multiple VRFs

Severity: Error

Explanation: A Traffic Policy prefix field set that was previously assigned to multiple BGP VRFs now belongs to at most one.

Recommended Action: No action is required – this message is for information only.

UPDATE_ERROR: attribute %s in update from peer %s (AS %u) is malformed, disabling AFI/SAFI %s.

Severity: Notice

Explanation: BGP has removed existing routes and disabled processing of subsequent NLRI of that AFI/SAFI because a peer sent a malformed update message as outlined in RFC7606

Recommended Action: Disabled AFI/SAFIs, and their respective reasons for being disabled, can be seen with the 'show ip bgp neighbor' command. Disabled AFI/SAFIs can be re-enabled with the 'clear ip bgp' command.

VPN_ADD_PATH_SEND_DROP_TXUPDATE: Dropped %s updates to peer %s as additional-paths send with next-hop-self is not supported

Severity: Error

Explanation: Readvertising received VPN updates when both next-hop-self and additional-paths send are enabled is not supported

Recommended Action: Either remove next-hop-self or additional-paths send configuration for the VPN peer

VPN_LOCAL_LABEL_UNAVAILABLE_DROP_TXUPDATE: Dropped %s updates to peer %s as local label was not available

Severity: Error

Explanation: The local label required for readvertising VPN updates with next-hop-self was not available

Recommended Action: Enable allocation of local label for received VPN routes to be advertised with next-hop-self. If this is already enabled, ensure that the MPLS label range is not exhausted. If the MPLS label range is exhausted, then try increasing the label range to be large enough to accommodate local labels for the received VPN routes.

VPN_NEIGHBOR_WITHOUT_EXT_COMM: Updates to peer %s for %s will be sent without route-targets as send-community extended is not configured.

Severity: Notice

Explanation:

Recommended Action: Configure send-community extended for the peer

VPN_PRUNE_SESSION_RESET_REQUIRED: VPN import configuration has changed - a BGP session reset is required for peer %s (AS %u).

Severity: Notice

Explanation: VPN routes that do not match any VRF import Route Targets are being discarded and the VRF import configuration has changed. This requires the recovery and re-evaluation of any discarded routes. However, this BGP peer doesn't support the Route Refresh capability, and so a manual session reset is required instead.

Recommended Action: Issue the 'clear ip bgp <peer>' command to reset the BGP peer connection.

VPN_RT_MEMBERSHIP_RECEIVED_CONFLICTING_DEFAULT_ROUTES: RT membership received conflicting default routes from peer %s, both with and without an origin AS

Severity: Error

Explanation: The peer has advertised to us two separate RT membership default routes. One of them has an unspecified origin-AS and a zero NLRI length. The other has a specified origin-AS and a 32 bit NLRI length. These two routes conflict, and withdrawing one of them will result in the deletion of both, resulting in missing VPN routes.

Recommended Action: Correct the neighbor's BGP RT membership configuration to only advertise one of the two types of default route.

VPN_RT_MEMBERSHIP_SUPPRESSED_DEFAULT_ROUTE_WITH_ORIGIN_AS: Suppressed advertisement of RT membership default route with origin AS %u to peer that only supports the unspecified origin AS default route

Severity: Error

Explanation: The BGP peer is activated under the rt-membership address family. For compatibility, the peer is configured to advertise a default route without the origin AS. The effect of this configuration is that a default RT membership route that originates in our AS, will be advertised as an unspecified origin-AS RT membership default route to the peer. However, a default route originating from the specified AS, had to be advertised to the peer, and that cannot be translated. The suppression of the this default RT membership route may result in missing VPN routes from the peer.

Recommended Action: Please upgrade the peer to an implementation capable of exchanging an RT membership default route that includes a specified origin AS, and remove the "neighbor <peer> default-route-target encoding origin-as omit" configuration.

VRF_AFI_SAFI_RIB_READY: BGP in VRF %s has converged and all routes for address family %s have been processed

Severity: Notice

Explanation: BGP has converged after receiving the initial set of updates from peers (if any) and has processed all routes for the specified address family. Best path routes for this address family are also ready to be advertised to peers

Recommended Action: No action is required – this message is for information only.

2.12 BIDIR Messages

RPA_RESOURCE_FULL: RPA used in Pim bidirectional has exceeded the limit.

Severity: Error

Explanation: Please make sure the number of RP used for Pim Bidirectional from BSR and static RP configuration are not exceeding the limit.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

2.13 CAPACITY Messages

UTILIZATION_HIGH: %s table utilization is currently at %d%%, crossed threshold %d%%

Severity: Alert

Explanation: The hardware table utilization has crossed the configured alert threshold value and may be reaching its maximum limit

Recommended Action: Check the utilization of hardware table resources using "show hardware capacity" and remove unwanted entries / configuration to free up space

UTILIZATION_NORMAL: %s table utilization is back to normal

Severity: Alert

Explanation: The hardware table utilization has come below the configured alert threshold value

Recommended Action: No action is required – this message is for information only.

2.14 CAPI Messages

CERTIFICATE_CONFIGURATION_CONFLICT: Certificate/key pair in the SSL Profile will not be used

Severity: Warning

Explanation: A server certificate is configured in HTTPS config. Only one server certificate can be configured at a time.

Recommended Action: Remove the server certificate in HTTPS config with 'no protocol https certificate' in 'management api http-commands'

CIPHERSUITE_AND_HTTPS_CONFIG_INCOMPATIBLE: SSL profile ciphersuite and protocol HTTPS cipher configuration are incompatible, so HTTP server will not start.

Severity: Warning

Explanation: Configure either SSL profile ciphersuite or HTTPS ciphers, mac algorithms and key-exchange. They cannot both be configured.

Recommended Action: Remove the cipher, mac, and key-exchange configurations in HTTPS config with 'no protocol https cipher', 'no protocol https mac', and 'no protocol https key-exchange' in 'management api http-commands'.

2.15 CARD Messages

DATA_PLANE_INCOMPATIBLE: %s is not supported because %s.

Severity: Error

Explanation: The forwarding plane of the linecard inserted is incompatible with other linecards in the system

Recommended Action: Remove the offending card and reboot the system

NOT_COMPATIBLE: %s (%s) is not supported because %s.

Severity: Error

Explanation: In the current configuration, this card is incompatible.

Recommended Action: Change configuration using 'platform sand {fabricforwarding} mode <mode>', save configuration and reboot the system

2.16 CFM Messages

MEP_CROSS_CONNECTION_CLEARED: CFM MEP %d on interface %s in maintenance association %s in maintenance domain %s:%d is not receiving cross connection CCM from MEP %d. %s

Severity: Notice

Explanation:

Recommended Action: No action is required – this message is for information only.

MEP_CROSS_CONNECTION_DETECTED: CFM MEP %d on interface %s in maintenance association %s in maintenance domain %s:%d detected cross connection CCM from remote MEP %d; LOC timeout is %s %s. %s

Severity: Notice

Explanation:

Recommended Action: No action is required – this message is for information only.

MEP_ERROR_CCM_CLEARED: CFM MEP %d on interface %s in maintenance association %s in maintenance domain %s:%d is not receiving error CCM from MEP %d. %s

Severity: Notice

Explanation:

Recommended Action: No action is required – this message is for information only.

MEP_ERROR_CCM_DETECTED: CFM MEP %d on interface %s in maintenance association %s in maintenance domain %s:%d detected error CCM with remote MEP %d; LOC timeout is %s %s. %s

Severity: Notice

Explanation:

Recommended Action: No action is required – this message is for information only.

MEP_LOC_CLEARED: CFM MEP %d on interface %s in maintenance association %s in maintenance domain %s:%d restored continuity with remote MEP %d.

Severity: Notice

Explanation: Local MEP has restored connectivity with remote MEP.

Recommended Action: No action is required – this message is for information only.

MEP_LOC_DETECTED: CFM MEP %d on interface %s in maintenance association %s in maintenance domain %s:%d detected loss of continuity with remote MEP %d at %s UTC; LOC timeout is %s %s.

Severity: Notice

Explanation: Local MEP has lost connectivity with remote MEP.

Recommended Action: No action is required – this message is for information only.

MEP_RDI_CLEARED: CFM MEP %d on interface %s in maintenance association %s in maintenance domain %s:%d received CCM with RDI field cleared from remote MEP %d.

Severity: Notice

Explanation: Local MEP received a CCM with RDI field cleared from remote MEP.

Recommended Action: No action is required – this message is for information only.

MEP_RDI_CONDITION_CLEARED: CFM MEP %d on interface %s in maintenance association %s in maintenance domain %s:%d has cleared RDI condition.

Severity: Notice

Explanation: Local MEP has cleared RDI condition because it received CCMs with RDI field cleared from all the remote MEPs.

Recommended Action: No action is required – this message is for information only.

MEP_RDI_CONDITION_DETECTED: CFM MEP %d on interface %s in maintenance association %s in maintenance domain %s:%d has detected RDI condition.

Severity: Notice

Explanation: Local MEP has detected RDI condition because it received a CCM with RDI field set from at least one remote MEP.

Recommended Action: No action is required – this message is for information only.

MEP_RDI_RECEIVED: CFM MEP %d on interface %s in maintenance association %s in maintenance domain %s:%d received CCM with RDI field set from remote MEP %d.

Severity: Notice

Explanation: Local MEP received a CCM with RDI field set from remote MEP.

Recommended Action: No action is required – this message is for information only.

PROFILE_INVALID_CCM_TX_INTERVAL: An invalid CFM CCM TX interval of less than 1 second was configured on profile %s. TX interval of 1 second will be used.

Severity: Info

Explanation: CFM CCM TX interval of less than 1 second is not supported on this platform, and the configuration will be ignored, or the operational TX interval will default to 1 second if the previous value is no longer valid.

Recommended Action: Verify the CFM profile configuration for CCM TX interval.

2.17 CLEAR Messages

COUNTERS: Clear %scounters %sby %s on %s (%s)

Severity: Notice

Explanation: Counter was cleared by CLI command

Recommended Action: No action is required – this message is for information only.

2.18 CLOCK Messages

UNSUPPORTED: The clock module is not supported

Severity: Error

Explanation: The clock module is not supported by this release.

Recommended Action: Upgrade software to a newer release. Contact support if the problem persists following an upgrade.

2.19 CONTAINERMGR Messages

CONTAINER_START_FAILED: Container %s failed to run, container-runtime reported "%s" while running "%s".

Severity: Error

Explanation: Configured container didn't start successfully.

Recommended Action: If the problem persists, please check container configuration. Otherwise, no action required.

DOCKER_NOT_INSTALLED: Docker is not installed

Severity: Error

Explanation: ContainerMgr depends on docker to work properly. Docker RPM is not packaged with EOS.swi. docker.x86_64.swix needs to be installed before ContainerMgr is configured.

Recommended Action: Install docker.x86_64.swix, and then reconfigure ContainerMgr.

IMAGE_LOAD_FAILED: Image load from %s failed, container-runtime reported "%s".

Severity: Error

Explanation: Configured container image wasn't loaded successfully.

Recommended Action: Please check the configured image.

2.20 CPLD Messages

HARDWARE_KERNEL_PANIC_EEPROM_RW_FAIL: CPLD failed to %s kernel panic eeprom

Severity: Info

Explanation: Software encountered failure in eeprom read/write operation

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

RELOAD_CAUSE_READ_FAILED: Software failed to read and clear the current reload cause stored in the CPLD.

Severity: Error

Explanation: Software tried to read and clear the current reload cause but failed. This was due to a communication error with the system's CPLD.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.21 CPU Messages

LOOPBACK_UTILIZED: Mirroring session [%s] is now utilizing a Loopback port

Severity: Notice

Explanation: A session for egress mirror to CPU is now using a Loopback port. This channel will recirculate egress traffic mirrored from the source interface to the CPU.

Recommended Action: No action is required – this message is for information only.

RECIRC_NOT_PROGRAMMED: Mirroring session [%s] requires a recirculation channel

Severity: Warning

Explanation: Creating more than one egress mirror to Cpu session requires a Recirc-Channel with at least one member port. The Recirc-Channel must also have the cpu-mirror feature set.

Recommended Action: Create a recirculation channel, add a port to it, and activate cpu-mirror.

RECIRC_UTILIZED: Mirroring session [%s] is now utilizing a Recirc-Channel

Severity: Notice

Explanation: A session for egress mirror to CPU is now using a Recirc-Channel. This channel will recirculate egress traffic mirrored from the source interface to the CPU.

Recommended Action: No action is required – this message is for information only.

2.22 CSPF Messages

DUPLICATE_TE_ROUTER_ID: TE router ID %s for %s router %s conflicts with router %s, router %s ignored

Severity: Warning

Explanation: Router with duplicate TE Router ID is ignored

Recommended Action: Please configure unique TE Router IDs

ORR_CLIENT_NODE_CHANGE: BGP optimal route reflection client node for position %s changed from %s to %s in %s topology

Severity: Info

Explanation: The BGP optimal route reflection client node for a configured optimal route reflection position changed

Recommended Action: No action is required – this message is for information only.

ORR_UNSUPPORTED_TOPOLOGY: BGP optimal route reflection unsupported IGP topologies found

Severity: Error

Explanation: BGP optimal route reflection is only supported with IS-IS in instance 0 and level 2

Recommended Action: Unconfigure other IS-IS/OSPF protocols except IS-IS in instance 0 and level 2

2.23 CVX Messages

CLIENT_DEREGISTRATION: CVX client %s (%s) has deregistered.

Severity: Info

Explanation: Indicates that a CVX client connection has been torn down.

Recommended Action: No action is required – this message is for information only.

CLIENT_REGISTRATION: CVX client %s (%s) has registered.

Severity: Info

Explanation: Indicates that a CVX client has established a connection.

Recommended Action: No action is required – this message is for information only.

CLUSTER_MASTER: CVX cluster master is %s (%s).

Severity: Info

Explanation: Indicates the master of a CVX cluster, as determined by the leader election protocol.

Recommended Action: No action is required – this message is for information only.

CLUSTER_STATE: CVX cluster state is %s.

Severity: Info

Explanation: Indicates that this CVX cluster member has changed state, as determined by the leader election protocol.

Recommended Action: No action is required – this message is for information only.

DEREGISTRATION: Deregistered from %s (%s).

Severity: Info

Explanation: Indicates that a CVX connection has been torn down.

Recommended Action: No action is required – this message is for information only.

HOSTNAME_LOOKUP_FAIL: Resolution of CVX hostname '%s' failed

Severity: Error

Explanation: Switch failed to resolve the controller's hostname. Switch registration cannot proceed.

Recommended Action: Check the configured name or use the controller's IP address.

HSC_HOSTNAME_COLLISION: Multiple physical switches with hostname %s found; assigning %s until this is resolved

Severity: Error

Explanation: Indicates that multiple physical switches are using the same hostname.

Recommended Action: Alter the configuration on affected devices to eliminate the conflict.

HSC_INVALID_VLAN_MAP: [%s]: Invalid Vlan map on %s VlanId: %s, Error: %s

Severity: Warning

Explanation: The controller specified a VLAN to logical switch mapping that cannot be implemented due to the current configuration of the switch.

Recommended Action: Inspect switch system logs for more information.

HSC_IP_PORT_ERROR: [%s]: %s: %s: %s

Severity: Warning

Explanation: Indicates that the switch has been unable to create the routed interfaces requested by the NVC due to conflicting configurations or a lack of hardware resources.

Recommended Action: Verify that the routed interface requested by the NVC does not conflict with the local switch configurations.

HSC_IP_UPLINK_ERROR: [%s]: %s: %s: %s

Severity: Warning

Explanation: Indicates that the switch has been unable to create the routed interfaces requested by the NVC due to conflicting configurations or a lack of hardware resources.

Recommended Action: Verify that the routed interface requested by the NVC does not conflict with local switch configurations.

HSC_LR_CREATION_ERROR: [%s]: %s: %s

Severity: Warning

Explanation: Indicates that the switch has been unable to create the VRF requested by the NVC due to conflicting configurations or a lack of hardware resources.

Recommended Action: Verify that the VRF configuration requested by the NVC does not conflict with local switch configurations.

HSC_MAC_TABLE_EXHAUSTION_ERROR: [%s]: %s: %s: %s

Severity: Warning

Explanation: Indicates that the switch has been unable to process MAC entries requested by the NVC due to lack of table resources.

Recommended Action:

HSC_MANAGER_CONNECTED: Network virtualization controller %s is connected to OVSDB

Severity: Info

Explanation: The network virtualization controller has connected to OVSDB

Recommended Action: No action is required – this message is for information only.

HSC_MANAGER_DISCONNECTED: Network virtualization controller %s is disconnected from OVSDB

Severity: Warning

Explanation: The network virtualization controller has disconnected from OVSDB

Recommended Action: Verify the connection between the OVSDB and network virtualization controller.

HSC_STATIC_ROUTES_ERROR: [%s]: %s: %s: %s

Severity: Warning

Explanation: Indicates that the switch has been unable to create the static routes requested by the NVC due to conflicting configurations.

Recommended Action: Verify that the static routes requested by the NVC does not conflict with local switch configurations.

HSC_UNSPECIFIED_FAULT: [%s]: %s: %s

Severity: Warning

Explanation: Indicates that an error has occurred in the switch but that no additional information is available.

Recommended Action: Inspect switch system logs for more information.

HSC_VIRTUAL_ROUTER_MAC_ERROR: [%s]: %s: %s

Severity: Warning

Explanation: Indicates that the switch has been unable to configure the Virtual Router MAC requested by the NVC due to conflicting configurations or a lack of hardware resources.

Recommended Action: Verify that the virtual MAC requested by the NVC does not conflict with local switch configurations.

LEADER_CHANGE: CVX cluster leadership change: Leader is %s (%s), UUID %s

Severity: Info

Explanation: The CVX cluster leader has changed, as determined by the cluster members in the leader election protocol.

Recommended Action: No action is required – this message is for information only.

MOUNT_TIMEOUT: %s is unable to mount from %s %s.

Severity: Error

Explanation: A mount request to synchronize state between CVX and switch has timed out. The services that depend on the state can be dysfunctional.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

MSS_FIREWALL_ACCESS_ERROR: Unable to access firewall %s: %s

Severity: Error

Explanation: Unable to access firewall

Recommended Action: Check firewall credentials and network reachability, contact Arista support as needed

MSS_FIREWALL_ACCESS_RECOVERED: Access to firewall %s is restored

Severity: Error

Explanation: Access to firewall is restored

Recommended Action: No action is required – this message is for information only.

MSS_FIREWALL_API_ERROR: Firewall %s API request failed: HTTP status %d, error code %s

Severity: Error

Explanation: Firewall API request failed

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

MSS_FIREWALL_API_RECOVERED: Firewall %s API request succeeded

Severity: Error

Explanation: Firewall API request succeeded

Recommended Action: No action is required – this message is for information only.

MSS_FLOW_NEXT_HOP_ERROR: Unable to install MSS rule for policy %s of firewall %s, VRF %s (Failed to resolve next hop for %s)

Severity: Error

Explanation: Failed to resolve next hop for source IP in firewall's routing table

Recommended Action: Check firewall's routing table, contact Arista support as needed

MSS_GRACEFUL_RESTART_TIMEOUT: A timeout occurred while waiting to receive the latest state from firewalls and switches at CVX.

Severity: Warning

Explanation: States of firewalls and switches did not converge within the graceful restart window of MSS. As a result, some churn may occur in policy enforcement.

Recommended Action: No action is required – this message is for information only.

MSS_HOST_PROGRAM_ERROR: Unable to install MSS rule for host %s of firewall %s, VRF %s, Switch ID %s

Severity: Error

Explanation: Unable to install MSS rule for a host

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

MSS_HOST_RECOVER: MSS rule for host %s of firewall %s, VRF %s is out of error state

Severity: Error

Explanation: MSS rule for a host is out of error state

Recommended Action: No action is required

MSS_HOST_UNPROGRAM_ERROR: Unable to uninstall MSS rule for host %s of firewall %s, VRF %s, Switch ID %s

Severity: Error

Explanation: Unable to uninstall MSS rule for a host

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

MSS_INCOMPATIBLE_FW_CONFIGURATION: %s configuration is incompatible: %s

Severity: Error

Explanation: Device configuration is incompatible.

Recommended Action: Check device configuration. Contact your technical support representative as needed.

MSS_INVALID_CONFIGURATION: Configuration is invalid: %s

Severity: Error

Explanation: MSS configuration is invalid.

Recommended Action: Check MSS configuration. Contact your technical support representative as needed.

MSS_RULE_PROGRAMMED: MSS rule for policy %s of firewall %s, VRF %s was installed

Severity: Info

Explanation: MSS rule for a security policy was installed

Recommended Action: No action is required

MSS_RULE_PROGRAM_ERROR: Unable to install MSS rule for policy %s of firewall %s, VRF %s, Switch ID %s

Severity: Error

Explanation: Unable to install MSS rule for a security policy

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

MSS_RULE_RECOVER: MSS rule for policy %s of firewall %s, VRF %s is out of error state

Severity: Error

Explanation: MSS rule for a security policy is out of error state

Recommended Action: No action is required

MSS_RULE_UNPROGRAM_ERROR: Unable to uninstall MSS rule for policy %s of firewall %s, VRF %s, Switch ID %s

Severity: Error

Explanation: Unable to uninstall MSS rule for a security policy

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

MSS_SKIPPING_POLICY: Skipping policy %s from firewall %s, virtual instance %s: %s

Severity: Warning

Explanation: A tagged policy is ignored by MSS

Recommended Action: Check policy config, contact Arista support as needed

MSS_SOUTHBOUND_REDIRECT: Southbound redirect rules won't be installed from firewall %s, VRF %s

Severity: Info

Explanation: A default route on the firewall is needed to redirect southbound traffic to an east-west only firewall

Recommended Action: No action is required – this message is for information only.

MSS_ZONE_INTERFACE_DOWN: Interface %s from firewall %s zone %s is down

Severity: Warning

Explanation: A source or destination zone interface is down

Recommended Action: Check firewall interface status, contact support as needed

MSS_ZONE_INTERFACE_UP: Interface %s from firewall %s zone %s is up

Severity: Warning

Explanation: A source or destination zone interface is up

Recommended Action: No action is required – this message is for information only.

OPENSTACK_CONNECTION_TIMEOUT: Connection from OpenStack ML2 worker on %s in region %s has been lost.

Severity: Warning

Explanation: This indicates that the Arista ML2 worker has not contacted CVX within an expected time window and may result in new OpenStack resources not being provisioned if the connection from all Arista ML2 workers is lost.

Recommended Action: Check that there are no connectivity issues between CVX and OpenStack Neutron controllers. Additionally, check Neutron logs for details on the ML2 worker's failure to connect to CVX. If the solution is not clear, contact your technical support representative.

OPENSTACK_INVALID_NETWORK_VLAN: OpenStack tried to allocate VLAN %d to network %s from outside the region's VLAN assignment

Severity: Warning

Explanation: When using the arista VLAN type driver, only VLANs from within the assigned VLAN pool may be allocated to OpenStack networks.

Recommended Action: If you do not wish to allocate this VLAN to an OpenStack network, no action is required. If you would like to allow OpenStack to provision this VLAN, then either use the default VLAN type driver or modify this region's VLAN assignment.

OPENSTACK_SYNC_RESTART: Sync of OpenStack region %s has restarted without completing.

Severity: Warning

Explanation: This indicates that an issue may have been encountered on the last sync attempt and if this continues to occur, new OpenStack resources will not be provisioned on Arista switches.

Recommended Action: Check OpenStack Neutron logs for any errors or messages that may indicate the reason that sync attempts are not succeeding. If the solution is not clear, contact your technical support representative.

PEER_DEREGISTRATION: CVX cluster peer %s (%s) has deregistered.

Severity: Info

Explanation: Indicates that a CVX cluster peer connection has been torn down.

Recommended Action: No action is required – this message is for information only.

PEER_REGISTRATION: CVX cluster peer %s (%s) has registered.

Severity: Info

Explanation: Indicates that a CVX cluster peer connection has been established.

Recommended Action: No action is required – this message is for information only.

PEER_SERVICE_COMPATIBLE: Services of CVX cluster peer %s are compatible.

Severity: Info

Explanation: This message indicates that the services of the CVX cluster peer are fully compatible.

Recommended Action: No action is required – this message is for information only.

PEER_SERVICE_INCOMPATIBLE: Services %s of CVX cluster peer %s are incompatible.

Severity: Info

Explanation: This message indicates that one or more of the services of the CVX cluster peer are not compatible. The compatible services will continue to run and be failover ready.

Recommended Action: No action is required – this message is for information only.

REGISTRATION: Registered with %s (%s).

Severity: Info

Explanation: Indicates that a CVX connection has been established.

Recommended Action: No action is required – this message is for information only.

SERVICE_NEGOTIATION_FAILURE: Negotiation failed for service %s with CVX (%s, System ID: %s) because %s.

Severity: Error

Explanation: CVX may refuse to provide a service to the client if the service is not enabled or the service version is not compatible with the service versions supported by CVX.

Recommended Action: No action is required – this message is for information only.

SSL_CONN_ERROR: SSL error with peer IP address %s and port %s, message: %s

Severity: Error

Explanation: There's an SSL error, which may cause CVX connections to fail.

Recommended Action: Check if the SSL profiles and certificates have all required fields set properly.

SSL_ERROR: SSL error: %s

Severity: Error

Explanation: There's an SSL error, which may cause CVX setup to fail.

Recommended Action: Check if the SSL profiles and certificates have all required fields set properly.

2.24 DATAPLANE Messages

COUNTER_ENGINE_RESOURCE_FULL: Counter engine resources are insufficient to enable counters for feature %s on switch chip type %s

Severity: Warning

Explanation: The switch is unable to program the named counter feature due to insufficient counter engine resources on the named switch chip type.

Recommended Action: Use counter feature command (no hardware counter feature FEATURE) to disable some features

COUNTER_RESOURCE_AVAILABLE_EGRESS: Hardware resource became available for egress counters

Severity: Info

Explanation: Counter pool is freed and hw resource became available for egress

Recommended Action: Use counter feature command (no hardware counter feature FEATURE) to disable some features

COUNTER_RESOURCE_AVAILABLE_INGRESS: Hardware resource became available for ingress counters

Severity: Info

Explanation: Counter pool is freed and hw resource became available for ingress

Recommended Action: Use counter feature command (no hardware counter feature FEATURE) to disable some features

COUNTER_RESOURCE_CONFLICT: Counter resource conflict between features %s and %s

Severity: Warning

Explanation: The named counter features are mutually exclusive. Only one of them can be enabled.

Recommended Action: Use counter feature command to enable only one of the features

COUNTER_RESOURCE_FULL_EGRESS: Hardware resource is insufficient to enable counters for egress

Severity: Warning

Explanation: The switch is unable to program counter feature due to insufficient hardware resources for egress counters.

Recommended Action: Use counter feature command (no hardware counter feature FEATURE) to disable some features

COUNTER_RESOURCE_FULL_INGRESS: Hardware resource is insufficient to enable counters for ingress

Severity: Warning

Explanation: The switch is unable to program counter feature due to insufficient hardware resource for ingress counters.

Recommended Action: Use counter feature command (no hardware counter feature FEATURE) to disable some features

COUNTER_SOURCE_RESOURCE_FULL: Counter source resources are insufficient to enable counters for feature %s on switch chip type %s

Severity: Warning

Explanation: The switch is unable to program the named counter feature due to insufficient counter source resources on the named switch chip type.

Recommended Action: Use counter feature command (no hardware counter feature FEATURE) to disable some features

L2_PROTOCOL_FORWARDING_HW_RESOURCE_FULL: Hardware resources are insufficient to program L2 protocol forwarding profile %s on %s

Severity: Error

Explanation: The switch is unable to program the L2 protocol forwarding profile

Recommended Action: Reconfigure the L2 protocol forwarding profile rules

MACTABLEENTRYCLEAR: Mac Table overflow condition for multicast group %s in VLAN %d has cleared

Severity: Warning

Explanation: The entry has been programmed and traffic should not flood for this group

Recommended Action: Okay to use this IP multicast group

MIRROR_INTERNAL_SESSION_RESOURCES_UNAVAILABLE: Insufficient hardware resources are available to program the internal session %s with destination interface %s.

Severity: Warning

Explanation: The switch is unable to program the internal mirror session because one or more modules does not have sufficient resources to program a mirror session.

Recommended Action: To solve this issue, unprogram a mirror session from all the modules that have all the mirror resources being used.

MIRROR_INVALID_SESSION_IN_CUT_THROUGH: Attempt to add mirror source %s in mirror session %s has failed.

Severity: Warning

Explanation: This system does not support mirror sessions that have both ingress mirror sources and egress mirror sources to the same mirror destination port while in cut-through forwarding mode.

Recommended Action: To resolve the issue switch to store-and-forward forwarding mode where this mirroring configuration can be supported.

MIRROR_SESSION_RESOURCES_FULL: Mirroring hardware resources are insufficient to program the mirror session %s.

Severity: Error

Explanation: The switch is unable to program the mirroring session due to the unavailability of hardware resources. The maximum mirror sessions limit has been exceeded. As a result this mirroring session is not operational.

Recommended Action: To solve this issue, remove a mirroring session or unconfigure a feature that is using a mirror session.

MIRROR_SOURCE_RESOURCES_FULL: Insufficient hardware resources are available to add interface %s as a source to session %s. There is a maximum of %d bidirectional sources or %d unidirectional sources available for a mirror session.

Severity: Warning

Explanation: The switch is unable to program the source interface due to unavailability of hardware resources. The limit of source interfaces that can be programmed in a mirror session has been exceeded. As a result traffic on this interface shall not be mirrored.

Recommended Action: To solve this issue, remove a source interface or use fewer mirror sources in the mirror sessions across the switch.

MIRROR_SOURCE_RESOURCES_NORMAL: All mirror sources are programmed in hardware.

Severity: Warning

Explanation: The switch was able to program all sources in hardware.

Recommended Action: Normal mirroring has resumed.

MULTICASTGROUPCLEAR: The condition of having insufficient hardware resources for programming a forwarding entry for the multicast group %s in VLAN %d has cleared

Severity: Warning

Explanation: Traffic sent to this multicast group will be forwarded only to ports belonging to this group

Recommended Action: Okay to use this IP multicast group.

NOMACTABLEENTRIES: Unable to program mac table entry for MAC address %s in VLAN %d due to hardware resource exhaustion

Severity: Warning

Explanation: The specified MAC address could not be programmed into the switching ASIC due to hash collisions in a bucket. Packets destined to the address will be flooded.

Recommended Action: Reduce the number of host table entries that need to be programmed into the switching ASIC. One or more of the following steps might be helpful: 1. Reduce the number of static mac entries. 2. Clear dynamic mac table entries. 3. Introduce additional layer 3 boundaries to reduce the number of MAC addresses. 4. Use fewer IP multicast groups.

NOMULTICASTGROUPS: Insufficient hardware resources for multicast group %s in VLAN %d, exceeding the limit of %d (group address, VLAN) pairs.

Severity: Warning

Explanation: Insufficient hardware resources are available to program a forwarding entry for the multicast group, which was learned via IGMP Snooping or static MAC table configuration. There is a limit of (group address, VLAN) pairs, and this limit has been exceeded. As a result, traffic sent to this multicast group will be forwarded to all ports.

Recommended Action: Use fewer IP multicast groups.

STORMCONTROLLERTCAMCLEAR: TCAM overflow condition for StormController setting on Unit %d Port %d has cleared

Severity: Warning

Explanation: The StormController setting has been programmed and traffic should be controlled

Recommended Action: Okay to rely on StormController for this port

STORMCONTROLLERTCAMFULL: Unable to find TCAM entry to set stormController on Unit %d Port %d

Severity: Warning

Explanation: The stormController setting can't be programmed into the switching ASIC due to exhaustion of TCAM entries. Rate can't be controlled for this port for now

Recommended Action: Reduce the number of TCAM entries that are programmed into the switching ASIC. One or more of the following steps might be helpful: 1. Reduce the number of ACLs. 2. Use fewer StormController settings.

STORMCONTROLLER_POLICER_RESOURCE_FULL: Insufficient hardware resources to program the police action for the StormController setting on Unit %s Port %s TC %s

Severity: Error

Explanation: Remove some features using policer banks and reapply the StormController setting to the port or the traffic-class to enable police action

Recommended Action: No action is required – this message is for information only.

TRUNCATION_RESOURCE_FULL: Hardware resources are insufficient to enable truncation for group %s on Fap %d

Severity: Warning

Explanation: The switch is unable to program tap aggregation truncation for group %s on Fap %d due to insufficient hardware resources.

Recommended Action: It may happen if tap interfaces on the same Fap have forwarding rules toward tool interfaces on which egress truncation is turned on. Try to turn off egress truncation on the tool ports or remove the forwarding rules from the tap interfaces.

2.25 DHCP Messages

ADDRESS_ASSIGNMENT_FAIL: Interface %s failed to acquire an IP address

Severity: Warning

Explanation: The DHCP client for the named interface is unable to acquire an IP address. This could be because the DHCP server is unreachable or the server is unable to provide an address at this time.

Recommended Action: Check that there is a DHCP server in the network that is reachable from the named interface (directly or via a DHCP relay), and that the DHCP server is configured to provide an address for the named interface on the switch.

ADDRESS_ASSIGNMENT_SUCCESS: Interface %s assigned IP address %s/%s for %s seconds

Severity: Info

Explanation: A DHCP server responded with the IP address for the named interface. After the allotted time, this IP address will expire.

Recommended Action: No action is required – this message is for information only.

ADDRESS_EXPIRE: Lease for IP address %s/%s on interface %s expired

Severity: Warning

Explanation: The IP address lease for the named interface has expired. The DHCP client for the interface is unable to acquire an IP address. This could be because the DHCP server is unreachable or the server is unable to provide an address at this time.

Recommended Action: Check that there is a DHCP server in the network that is reachable from the named interface (directly or via a DHCP relay), and that the DHCP server is configured to provide an address for the named interface on the switch.

ADDRESS_RELEASE: Releasing IP address %s/%s on interface %s

Severity: Info

Explanation: Removing the DHCP client configuration from the named interface causes the system to release the address currently assigned to the interface.

Recommended Action: No action is required – this message is for information only.

2.26 DHCPRELAY Messages

REQUEST_FLOODING_SUPPRESSION_DISABLED: DHCP/DHCPv6 client request flood suppression is non-operational

Severity: Info

Explanation: Enabling DHCP or DHCPv6 snooping will disable DHCP/DHCPv6 client request flood suppression

Recommended Action: No action is required – this message is for information only.

2.27 DIRECTFLOW Messages

DROP_LOG: dropped: %s

Severity: Info

Explanation: Packet matched by DirectFlow has been dropped due to configured action

Recommended Action: No action is required – this message is for information only.

IP_VRF_DUPLICATE_ENDPOINT: IP address %s in VRF %s is already in use by another endpoint.

Severity: Warning

Explanation: The specified IP address in VRF conflicts with the other DirectFlow endpoints

Recommended Action: To solve this conflict, please remove the configuration from all the conflicting DirectFlow endpoints and try again.

MAC_VLAN_DUPLICATE_ENDPOINT: MAC address %s in VLAN %d is already in use by another endpoint.

Severity: Warning

Explanation: The specified MAC address in VLAN conflicts with the other DirectFlow endpoints

Recommended Action: To solve this conflict, please remove the configuration from all the conflicting DirectFlow endpoints and try again.

2.28 DMF Messages

CONTROLLER_DOWNLOAD_FAILED: Downloading %s from the DMF controller failed

Severity: Error

Explanation: The switch failed to download a file from the DMF controller. This led to failure of the handshake or syncing with the controller.

Recommended Action: Verify network reachability to the controller. The switch will continue to retry downloading the file.

CONTROLLER_FLASH_FULL: Insufficient space on flash to download image

Severity: Error

Explanation: Downloading image from the DMF controller failed. Please cleanup the flash manually.

Recommended Action: Please free space for the image in the flash manually.

CONTROLLER_HANDSHAKE_COMPLETE: The handshake with the DMF controller completed

Severity: Info

Explanation: The switch was able to connect to the controller and is running with the config and image provisioned by the DMF controller.

Recommended Action: No action is required – this message is for information only.

CONTROLLER_HANDSHAKE_FAILED: The handshake with the controller failed because %s

Severity: Error

Explanation: The switch downloads and installs the startup-config and the image received from the controller as part of the initial handshake. If these actions fail, the switch will continue to run with the existing running-config but the controller will not have impact on the switch.

Recommended Action: Verify the version of the controller and the image provisioned on the controller for the switch. The switch and the controller will continue to try to complete the handshake with each other.

CONTROLLER_HANDSHAKE_INIT: Initiating handshake with the DMF controller for provisioning the switch

Severity: Info

Explanation: DMF is configured. The switch is initiating a handshake with the DMF controller to become a member of the fabric.

Recommended Action: No action is required – this message is for information only.

CONTROLLER_SYNC_COMPLETE: Synchronization of the configuration and EOS image from the controller on the switch is complete

Severity: Info

Explanation: Upon receiving a request from the controller to resynchronize, the switch has downloaded the config and image from the controller and applied it successfully.

Recommended Action: No action is required – this message is for information only.

CONTROLLER_SYNC_FAILED: Synchronizing with the controller failed because %s

Severity: Error

Explanation: After downloading the config or image from the controller, the switch attempted to install it. The sync operation is determined as failed if the config contains invalid commands or if the image is invalid.

Recommended Action: Verify the version of the controller and the image provisioned on the controller for the switch.

CONTROLLER_SYNC_START: Synchronizing the configuration and image with the controller started

Severity: Info

Explanation: The switch received a request from the controller to synchronize the config and the EOS image. It will download the config and image from the controller. If this operation does not complete in 90 seconds, serving the request will be aborted.

Recommended Action: No action is required – this message is for information only.

CONTROLLER_SYNC_TIMEOUT: Synchronizing the configuration and image with the controller timed out

Severity: Error

Explanation: After attempting to download the manifest, config or image and applying them, the switch has set the result of sync request as timed out.

Recommended Action: Verify network reachability to the controller and zerotouch status on the controllers.

2.29 DOT1X Messages

AAA_UNRESPONSIVE_FALLBACK: %s with identity %s and MAC %s on port %s could not be authenticated because the AAA server is unresponsive. The supplicant will be put in %s VLAN %s.

Severity: Error

Explanation: The AAA server timed out while authenticating a supplicant

Recommended Action: Check the availability and reachability of the AAA server

ACCT_FALLBACK: Accounting method '%s' is currently unavailable; falling back to next method.

Severity: Warning

Explanation: The accounting method failed to provide an answer and is considered unavailable. If the method list for this service contains a fallback method, this request will be retried via that method.

Recommended Action: Check the availability and reachability of the accounting server(s).

ACCT_MSG_DROP: No available server; accounting message has been dropped.

Severity: Warning

Explanation: None of the accounting servers are responsive, and the switch has dropped the message.

Recommended Action: Check the availability and reachability of the accounting server(s).

AUTHN_FALLBACK: Authentication method '%s' is currently unavailable; falling back to next method.

Severity: Warning

Explanation: The authentication method failed to provide an answer and is considered unavailable. If the method list for this service contains a fallback method, this request will be retried via that method.

Recommended Action: Check the availability and reachability of the authentication server(s).

AV_PAIR_ERROR: Failed to handle AV pair for attribute %s: %s

Severity: Error

Explanation: We encountered an error in processing an attribute-value pair sent by AAA server

Recommended Action: Investigate AAA server configuration.

DUPLICATE_SUPPLICANT: Supplicant with MAC %s authenticated on port %s attempted to communicate using the 802.1X protocol on another port %s.

Severity: Error

Explanation: An authenticated supplicant appeared on another port.

Recommended Action: The supplicant will need to log off on former port in order to log on another port

INVALID_RADIUS_SERVER: RADIUS server '%s' port %d could not be used: %s

Severity: Warning

Explanation: The configuration contains a RADIUS server that could not be used. One cause for this type of error is a hostname for which DNS resolution fails.

Recommended Action: Correct the RADIUS server configuration.

NO_AUTHN_METHODLIST: No authentication method list configured for 802.1x

Severity: Error

Explanation: An attempt to authenticate a port failed because there is no authentication method list configured for 802.1x.

Recommended Action: Add an authentication method list for 802.1x.

NO_VALID_RADIUS_SERVERS: No valid RADIUS servers for method list '%s'

Severity: Error

Explanation: The configuration contains an authentication method list that is not associated with any valid RADIUS servers.

Recommended Action: Add at least one RADIUS server to the server group.

RADIUS_FRAMED_MTU_EXCEEDED: Received from RADIUS server '%s' a packet %d bytes long which exceeds the configured Framed-MTU of %d bytes; Rejecting the Supplicant.

Severity: Error

Explanation: The RADIUS server did not honor the Frame-MTU attribute sent by the NAS.

Recommended Action: Either increase the MTU of the port which is to be authenticated, or configure the RADIUS server to honor the Frame-MTU attribute in an Access-Request packet.

SESSION_REPLACE_DETECTED: %u session replacements in %s seconds detected on single host interface %s

Severity: Warning

Explanation: Multiple supplicants are communicating on single host port with session replace enabled which will lead to the supplicants replacing each other indefinitely. This message will continue to be logged every 30s until continuous session replacements are no longer detected

Recommended Action: Investigate if multiple supplicants are communicating on the port. Please ensure that there is only one supplicant communicating on the single host port.

SUPPLICANT_AUTHENTICATED: Supplicant with identity %s, MAC %s and dynamic VLAN %s successfully authenticated on port %s.

Severity: Info

Explanation: A supplicant was successfully authenticated on a 802.1X enabled port.

Recommended Action: No action is required – this message is for information only.

SUPPLICANT_AUTH_FAILED: A Dot1x supplicant failed authentication on interface %s with EAP method %s, identity %s and mac %s.

Severity: Error

Explanation: A Dot1x supplicant failed to authenticate with an authenticator.

Recommended Action: Verify that the credentials provided for the supplicant are correct and match what the authenticator expects.

SUPPLICANT_AUTH_SUCCEEDED: A Dot1x supplicant has successfully authenticated on interface %s with EAP method %s, identity %s and mac %s.

Severity: Info

Explanation: A Dot1x supplicant successfully authenticated with an authenticator.

Recommended Action: No action is required – this message is for information only.

SUPPLICANT_BLOCKED_AND_LOG_OFF: Supplicant with identity %s and MAC %s was blocked via dynamic authorization and has been logged off of interface %s.

Severity: Info

Explanation: Authenticated supplicant has been logged off after receiving a dynamic authorization message from radius server.

Recommended Action: The supplicant is blocked, which can be verified with 'show dot1x hosts blocked' output. Unblock the supplicant via dynamic authorization to allow authentication

SUPPLICANT_CACHED_AUTHENTICATION: Supplicant with identity %s and MAC %s has been authenticated from %s on interface %s.

Severity: Info

Explanation: An authenticated supplicant which was cached earlier has showed up on the interface, it has been restored from the cache.

Recommended Action: No action is required – this message is for information only.

SUPPLICANT_FAILED_ACL_AUTHORIZATION: Supplicant with identity %s, MAC %s and dynamic VLAN %s successfully authenticated but failed authorization on port %s because %s.

Severity: Error

Explanation: A supplicant was not authorized on a 802.1X enabled port due to an issue with ACL config received by AAA server or ACL config on the switch

Recommended Action: Investigate AAA server configuration and ACL config on the switch

SUPPLICANT_FAILED_ACL_AUTHORIZATION_AFVLAN: Supplicant with identity %s, MAC %s and dynamic VLAN %s successfully authenticated but failed authorization on port %s because %s. The supplicant will be put in auth-fail VLAN %s.

Severity: Error

Explanation: A supplicant was not authorized on a 802.1X enabled port due to an issue with ACL config received by AAA server or ACL config on the switch

Recommended Action: Investigate AAA server configuration and ACL config on the switch

SUPPLICANT_FAILED_AUTHENTICATION: Supplicant with identity %s, MAC %s and dynamic VLAN %s failed authentication on port %s.

Severity: Error

Explanation: A supplicant attempted to authenticate using 802.1X but did not have the proper credentials.

Recommended Action: Verify the credentials the supplicant has for the identity it provided.

SUPPLICANT_FAILED_AUTHENTICATION_AFVLAN: Supplicant with identity %s, MAC %s and dynamic VLAN %s failed authentication on port %s. The supplicant will be put in auth-fail VLAN %s

Severity: Error

Explanation: A supplicant attempted to authenticate using 802.1X but did not have the proper credentials.

Recommended Action: Verify the credentials the supplicant has for the identity it provided.

SUPPLICANT_FAILED_AUTHORIZATION: Supplicant with identity %s, MAC %s and dynamic VLAN %s successfully authenticated but failed authorization on port %s.

Severity: Error

Explanation: A supplicant was not authorized on a 802.1X enabled port due to an incorrect or missing dynamic VLAN ID.

Recommended Action: Investigate if the dynamic VLAN ID associated with the supplicant matches that of the port.

SUPPLICANT_FAILED_AUTHORIZATION_AFVLAN: Supplicant with identity %s, MAC %s and dynamic VLAN %s successfully authenticated but failed authorization on port %s. The supplicant will be put in auth-fail VLAN %s.

Severity: Error

Explanation: A supplicant was not authorized on a 802.1X enabled port due to an incorrect or missing dynamic VLAN ID.

Recommended Action: Investigate if the dynamic VLAN ID associated with the supplicant matches that of the port.

SUPPLICANT_FAILED_INTERNAL_VLAN_CONFLICT: Supplicant with identity %s, MAC %s and dynamic VLAN %s successfully authenticated but failed authorization on port %s.

Severity: Error

Explanation: A supplicant was not authorized on a 802.1X enabled port due to conflicting internal vlan

Recommended Action: Investigate if the dynamic VLAN ID associated with the supplicant conflicts with any of the internal vlans

SUPPLICANT_FALLBACK_TO_MBA: Supplicant with identity %s and MAC %s on interface %s failed EAPOL authentication. Falling back to MBA.

Severity: Info

Explanation: The supplicant failed EAPOL authentication. Authentication failure fallback is enabled, so falling back to MBA for the supplicant.

Recommended Action: No action is required – this message is for information only.

SUPPLICANT_FORCEFULLY_AUTHORIZED: Phone with identity %s and MAC %s forcefully authorized on port %s and VLAN %s

Severity: Info

Explanation: A phone supplicant was forcefully authorized on a 802.1X enabled port.

Recommended Action: No action is required – this message is for information only.

SUPPLICANT_IDLE_TIMEOUT: Supplicant with identity %s and MAC %s has logged off of port %s due to their idle timeout timer expiring after a period of inactivity.

Severity: Info

Explanation: A supplicant that was associated with an 802.1X port has logged off after a period of inactivity.

Recommended Action: No action is required – this message is for information only.

SUPPLICANT_INCOMPLETE_CONFIGURATION: A Dot1x supplicant is incompletely configured on interface %s. Missing configuration is %s.

Severity: Error

Explanation: A Dot1x supplicant failed to start owing to incomplete configuration information.

Recommended Action: Provide the missing configuration information through CLI.

SUPPLICANT_LOG_OFF: Supplicant with identity %s and MAC %s has logged off of port %s.

Severity: Info

Explanation: A supplicant that was associated with an 802.1X port has logged off of it.

Recommended Action: No action is required – this message is for information only.

SUPPLICANT_MLAG_MAC_MOVE: Supplicant with identity %s and MAC %s has logged off of port %s, as mac was learned on new port in mlag peer

Severity: Info

Explanation: A supplicant that was associated with an 802.1X port has logged off of it, due to the mac being learned on a different mlag peer.

Recommended Action: No action is required – this message is for information only.

SUPPLICANT_MOVE_DETECTED: Supplicant with MAC %s has moved from port %s to another port %s.

Severity: Info

Explanation: An authenticated supplicant appeared on another port. Session move is enabled and the session on the former port has been cleaned up.

Recommended Action: No action is required – this message is for information only.

SUPPLICANT_MULTIPLE_SUPPLICANTS_COMMUNICATING: Supplicant with MAC %s on port %s attempted to %sbut MAC %s is already associated with this port.

Severity: Warning

Explanation: Only one MAC address can be associated with an 802.1X port at a time for communicating 802.1X operations.

Recommended Action: Investigate if the latter supplicant should be the one authenticating. The former supplicant will need to log off or time out to allow the latter supplicant to authenticate.

SUPPLICANT_REMOVED: Supplicant with MAC %s has been removed from port %s.

Severity: Info

Explanation: A supplicant that was associated with an 802.1X port has been removed.

Recommended Action: No action is required – this message is for information only.

SUPPLICANT_TIMEOUT: Supplicant with identity %s and MAC %s timed out during authentication on port %s.

Severity: Warning

Explanation: A supplicant timed out during the authentication sequence on a 802.1X enabled port.

Recommended Action: Examine the authentication software used if this persists.

SUPPLICANT_UNRESPONSIVE: Unresponsive supplicant with MAC %s on interface %s moved to VLAN %s.

Severity: Info

Explanation: Supplicant not responding to 802.1x packet

Recommended Action: No action is required – this message is for information only.

TAGGED_SUPPLICANT_FAILED_AUTHORIZATION: Supplicant with identity %s, MAC %s successfully authenticated but failed authorization on port %s.

Severity: Error

Explanation: VLAN received from AAA server %s, VLAN on packets %d.

Recommended Action: Verify the VLAN Id and Supplicant VLAN.

UNKNOWN_RADIUS_SERVER: RADIUS server group '%s' references unknown server '%s'

Severity: Warning

Explanation: The RADIUS server group contains a server that was not configured using the 'radius-server host' command.

Recommended Action: Configure the unknown server or remove it from the server group.

2.30 DUPLICATE Messages

ROUTE_WARNING: Neighbor entry %s generates attached-host route %s, also generated by another pre-existing neighbor entry %s, both matching to same configured match-prefix %s

Severity: Warning

Explanation: Multiple neighbor entries matching to a same match-prefix generates same attached-host route

Recommended Action: Increase the configured export prefix-length for this match-prefix.

2.31 DYN Messages

VLAN_REJECT: Dynamic VLAN %s requested by %s was rejected.

Severity: Warning

Explanation: Dynamic VLAN configuration needs to be synchronized with the allowed dynamic range on the switch.

Recommended Action: Please update the source configuration to use VLANs from within the locally allowed dynamic VLAN range.

2.32 EBRA Messages

VLANTAG_INVALID: Tap identity %d is not valid for VLAN tag.

Severity: Error

Explanation: Tap identity must be within range 1-4094 to be used as VLAN tag.

Recommended Action: No action is required – this message is for information only.

2.33 ENVMON Messages

ADT7483_NOT_UPDATING: %s is not updating correctly

Severity: Warning

Explanation: The temperature sensor is not updating correctly and may be showing an incorrect temperature

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

ADT7483_RECOVERED: %s has started updating correctly

Severity: Warning

Explanation: The temperature sensor was not updating correctly but has now recovered

Recommended Action: No action is required – this message is for information only.

CARDINSUFFICIENTFANSDETECTED: Too few working fans detected for %s. If not resolved, the card will be shut down in %d minute(s).

Severity: Emergency

Explanation: Not enough fans of the correct type are functioning and this card will be shut down if the problem is not resolved.

Recommended Action: Check that all fans are inserted and still spinning, and replace any missing or broken fans immediately. Check that all fans are of the same type (i.e., port-side intake vs port-side exhaust airflow), and replace any differing fans immediately.

CARDINSUFFICIENTFANSSHUTDOWN: %s is being shutdown due to insufficient fans.

Severity: Emergency

Explanation: Too many fans have failed or are missing, or fans of incompatible types have been inserted. The card is being shut down to prevent damage.

Recommended Action: Replace the broken, missing, or incompatible fans immediately

CARDOVERHEATSHUTDOWN: %s temperature critical and is being shutdown

Severity: Emergency

Explanation: The specified card has surpassed its critical temperature and is being shutdown to prevent damage to the hardware.

Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

CARDOVERHEATWARNING: %s is overheating

Severity: Emergency

Explanation: The specified card has begun to overheat. If the card continues to heat up, it will be shutdown to prevent damage to the hardware

Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

CARDSUFFICIENTFANSRESTORED: Sufficient fans restored for %s.

Severity: Emergency

Explanation: Previously missing, failed, or incompatible fans have been replaced. The card has enough fans to function properly and will not be shut down

Recommended Action: No action is required – this message is for information only.

CARDTEMPNORMAL: %s temperature has returned to normal

Severity: Emergency

Explanation: The specified card was overheating but has now returned to a normal operating temperature.

Recommended Action: No action is required – this message is for information only.

FABRIC_MISSING: %d fabric card(s) missing.

Severity: Emergency

Explanation: The specified number of fabric cards are missing from the system.

Recommended Action: Insert the missing fabric cards.

FANFAILED: %s failure detected

Severity: Error

Explanation: The specified fan has failed or been removed.

Recommended Action: Replace the specified fan as soon as possible

FANOK: %s has recovered

Severity: Error

Explanation: The specified fan was previously missing or had previously failed but is now ok

Recommended Action: No action is required – this message is for information only.

FAN_AIRFLOW_DIRECTION_INCORRECT: Airflow of %s is incompatible with the system airflow.

Severity: Emergency

Explanation: The specified fan's airflow is opposite to the correct system airflow.

Recommended Action: Replace the fan with a fan that has correct airflow.

FAN_AIRFLOW_DIRECTION_OK: Airflow of %s has been restored to compatible with the system airflow.

Severity: Emergency

Explanation: The specified fan's airflow was previously wrong but is now correct.

Recommended Action: No action is required – this message is for information only.

FAN_FAULT: %s logged a fan fault.

Severity: Error

Explanation: This may be caused by a defective fan or an overcurrent condition.

Recommended Action: Please try to re-seat the fan. If the problem persists, replace the specified fan as soon as possible.

FAN_FAULT_OK: %s has recovered from a fan fault.

Severity: Error

Explanation: The specified fan previously had an overcurrent condition but is now ok.

Recommended Action: No action is required – this message is for information only.

FAN_SPEED_FORCED: All fan speeds have been forced to %d percent because one or more of the following conditions have positive quantities : %s.

Severity: Notice

Explanation: System and PSU fan speeds forced to a set number.

Recommended Action: No action is required – this message is for information only.

FAN_SPEED_NORMAL: All fan speeds have returned to normal operation.

Severity: Notice

Explanation: Conditions that mandate using a set speed have subsided.

Recommended Action: No action is required – this message is for information only.

FAN_SPEED_OK: The speed of %s has recovered.

Severity: Error

Explanation: The specified fan was previously too slow or too fast but is now ok.

Recommended Action: No action is required – this message is for information only.

FAN_SPEED_STABLE: The speed of the fan %s has been stabilized

Severity: Info

Explanation: The fan speed's stability is changed to the value shown

Recommended Action: No action is required – this message is for information only.

FAN_SPEED_TOO_FAST: The speed of %s is faster than its configured value.

Severity: Warning

Explanation: This may be caused by a defective fan.

Recommended Action: Please try to re-seat the fan. If the problem persists, replace the specified fan as soon as possible.

FAN_SPEED_TOO_SLOW: The speed of %s is slower than its configured value.

Severity: Error

Explanation: This may be caused by a defective fan.

Recommended Action: Please try to re-seat the fan. If the problem persists, replace the specified fan as soon as possible.

FAN_SPEED_UNSTABLE: The speed of the fan %s is being stabilized

Severity: Info

Explanation: The fan speed's stability is changed to the value shown

Recommended Action: No action is required – this message is for information only.

FORCED_SYSTEM_TEMP: The system temperature is forced to %d due to the presence of %s file

Severity: Warning

Explanation: This may be caused by a leftover debug file.

Recommended Action: Please remove the debug file if not needed.

INCOMPATIBLEFANSDETECTED: Incompatible fans have been detected. If not resolved, the system will be shut down in %d minute(s).

Severity: Emergency

Explanation: All fans must be the same type (i.e. port-side intake or port-side exhaust) but at least one miss-matched fan has been detected. The system will be shut down if the problem is not resolved.

Recommended Action: Check that all fans are of the same type (i.e., port-side intake vs port-side exhaust airflow), and replace any differing fan(s) immediately.

INSUFFICIENTFANSDETECTED: Too few working fans detected. If not resolved, the %s will be %s in %d minute(s).

Severity: Emergency

Explanation: Not enough fans of the correct type are functioning and the system will be shut down or power cycled if the problem is not resolved.

Recommended Action: Check that all fans are inserted and still spinning, and replace any missing or broken fans immediately.

INSUFFICIENTFANSSHUTDOWN: %s being %s due to insufficient or incompatible fans.

Severity: Emergency

Explanation: Too many fans have failed or are missing or incompatible fans have been detected. The system is being shut down or power cycled to prevent damage.

Recommended Action: Replace all broken, missing or incompatible fans immediately

POWERSUPPLY_OVERHEAT_CRITICAL: %s temperature critical

Severity: Emergency

Explanation: The specified power supply has surpassed its critical temperature.

Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

POWERSUPPLY_OVERHEAT_WARNING: %s is overheating

Severity: Emergency

Explanation: The specified power supply has begun to overheat.

Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

POWERSUPPLY_TEMP_NORMAL: %s temperature has returned to normal

Severity: Emergency

Explanation: The specified power supply was overheating but has now returned to a normal operating temperature.

Recommended Action: No action is required – this message is for information only.

PSU_FANS_INCOMPATIBLE: 2 or more incompatible power supply fans have been detected. If not resolved, the system will be shut down in %d minute(s).

Severity: Emergency

Explanation: At most one PSU fan can be incompatible, but more than one incompatible PSU fans have been detected. The system will be shut down if the problem is not resolved.

Recommended Action: Replace any incompatible PSU(s) immediately.

PSU_FANS_OK: Previously incompatible power supply fans have been restored to be compatible with the system airflow. The system will not shut down.

Severity: Emergency

Explanation: At least all but one PSU fans must match the system airflow, and they do now.

Recommended Action: No action is required – this message is for information only.

SUFFICIENTFANSRESTORED: Sufficient fans restored.

Severity: Emergency

Explanation: Previously missing, failed, or incompatible fans have been replaced. The system has enough fans to function properly and will not be shut down

Recommended Action: No action is required – this message is for information only.

SYSTEMOVERHEATPOWERCYCLE: System temperature critical and will be power-cycled %s

Severity: Emergency

Explanation: The system has surpassed its critical temperature and will be power-cycled to prevent damage to the hardware.

Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

SYSTEMOVERHEATSHUTDOWN: System temperature critical and will be shutdown %s

Severity: Emergency

Explanation: The system has surpassed its critical temperature and will be shutdown to prevent damage to the hardware.

Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

SYSTEMOVERHEATWARNING: The system is overheating

Severity: Emergency

Explanation: The system has begun to overheat. If the system continues to heat up, it will be shutdown

Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

SYSTEMSHUTDOWNDETECTED: System was previously shutdown for environmental reasons.

Severity: Warning

Explanation: The system was previously shutdown due to insufficient fans or critical system temperature.

Recommended Action: Check the output of 'show reset cause' for more information. If the problem persists, please contact your support representative for assistance.

SYSTEMTEMPNORMAL: System temperature has returned to normal

Severity: Emergency

Explanation: The system was overheating but has now returned to a normal operating temperature.

Recommended Action: No action is required – this message is for information only.

SYSTEM_AIRFLOW_DIRECTION_ELECTED: The correct airflow for the system is %s.

Severity: Notice

Explanation: Correct system airflow either found for first time or changed.

Recommended Action: No action is required – this message is for information only.

SYSTEM_FANS_MISSING_FAILED: %d system fan(s) missing or failed.

Severity: Emergency

Explanation: The specified number of system fans are missing from the system.

Recommended Action: Insert the missing fans and replace the failed fans.

TEMPSENSORFAILED: %s failure detected

Severity: Error

Explanation: The specified temp sensor has failed.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TEMPSENSORINVALID: %s is reporting an invalid temperature

Severity: Error

Explanation: The specified temp sensor returned an invalid temperature reading. This can happen intermittently, but should not persist.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TEMPSENSOROK: %s has recovered

Severity: Error

Explanation: The specified temp sensor had previously failed but is now ok.

Recommended Action: No action is required – this message is for information only.

TEMPSENSOR_GROUP_FAILURE_SHUTDOWN: '%s' temperature sensors on %s have failed, and the card is being shutdown.

Severity: Emergency

Explanation: All the temperature sensors in the specified group have failed, and the card is being shutdown to prevent damage to the hardware.

Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

TEMPSENSOR_GROUP_FAILURE_WARNING: '%s' temperature sensors on %s have failed.

Severity: Error

Explanation: If none of the failed temperature sensors of the group recover, the card will be shutdown to prevent damage to the hardware

Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

TEMPSENSOR_GROUP_OK: Failed temperature sensor group(s) on %s have recovered.

Severity: Error

Explanation: One or more temperature sensors in all the groups that had failed have recovered.

Recommended Action: No action is required – this message is for information only.

TEMPSENSOR_OVERHEAT_CRITICAL: %s is reporting %sC, which is above its critical threshold of %dC

Severity: Emergency

Explanation: The specified temp sensor is reporting a temperature above its critical threshold. The system will disable the overheating component to prevent damage.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TEMPSENSOR_OVERHEAT_WARNING: %s is reporting %sC, which is above its overheat threshold of %dC

Severity: Error

Explanation: The specified temp sensor is reporting a temperature above its overheat threshold, indicating a component is overheating.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TEMPSENSOR_TEMP_NORMAL: %s is reporting %sC, which is within the normal range

Severity: Error

Explanation: The specified temp sensor was overheating but has now returned to a normal operating temperature.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

XCVR_OVERHEAT_CRITICAL: %s temperature critical

Severity: Emergency

Explanation: The specified transceiver has surpassed its critical temperature.

Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

XCVR_OVERHEAT_WARNING: %s is overheating

Severity: Emergency

Explanation: The specified transceiver has begun to overheat.

Recommended Action: Check that system fans are operating correctly. If the problem persists, please contact your support representative for assistance.

XCVR_TEMP_NORMAL: %s temperature has returned to normal

Severity: Emergency

Explanation: The specified transceiver was overheating but has now returned to a normal operating temperature.

Recommended Action: No action is required – this message is for information only.

2.34 EOAM Messages

ACTION_NOT_SUPPORTED: The action %s in Profile %s, error type %s is not supported. no action will be taken

Severity: Warning

Explanation:

Recommended Action: No action is required – this message is for information only.

ACTION_NOT_SUPPORTED_CLEARED: The action %s in Profile %s, error type %s, is applied.

Severity: Warning

Explanation:

Recommended Action: No action is required – this message is for information only.

INTERFACE_RECOVERED: The interface %s has now been recovered, after %s

Severity: Warning

Explanation:

Recommended Action: No action is required – this message is for information only.

THRESHOLD_EXCEEDED: The number of %s errors on interface %s exceeded the configured threshold %d.

Action %s is being taken.

Severity: Warning

Explanation:

Recommended Action: No action is required – this message is for information only.

2.35 EOS Messages

ARCHIVE_FS_ERROR: An error occurred getting filesystem information for the archive destination path: %s

Severity: Error

Explanation: We are unable to get filesystem information for the destination path or the mountpoint of the filesystem. This means the path does not exist or the filesystem is not mounted.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

ARCHIVE_INV_CONFIG_ERROR: Unable to use the currently configured archive

Severity: Error

Explanation: Unable to read the configuration file /mnt/flash/.arista_archive_config or its content is invalid.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

ARCHIVE_NO_CONFIG_ERROR: Unable to get the currently configured archive

Severity: Error

Explanation: File /mnt/flash/.arista_archive_config does not exist.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

ARCHIVE_QUOTACMD_ERROR: An error occurred managing linux quota: %s

Severity: Error

Explanation: Updating quota limit failed. It could mean that the filesystem is mounted without quota options or that the quota database file aquota.user is missing or corrupted.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.36 ETH Messages

ARP_CACHE_CLEAR: ARP cache of VRF %s cleared by %s on %s (%s)

Severity: Notice

Explanation: ARP cache cleared by CLI command

Recommended Action: No action is required – this message is for information only.

ARP_CACHE_INTERFACE_CLEAR: ARP cache of VRF %s for interface %s cleared by %s on %s (%s)

Severity: Notice

Explanation: ARP cache on interface cleared by CLI command

Recommended Action: No action is required – this message is for information only.

ARP_CACHE_IP_CLEAR: IP (%s) cleared from ARP cache of VRF %s by %s on %s (%s)

Severity: Notice

Explanation: IP cleared from ARP cache by CLI command

Recommended Action: No action is required – this message is for information only.

AUTONEGUNSUPPORTED: Auto-negotiation is unsupported on interface %s, link mode (speed and duplex) will be forced to %s mode instead

Severity: Warning

Explanation: The interface is configured to auto-negotiate, but the transceiver currently inserted does not support auto-negotiation. The switch will attempt to bring up the link with a forced configuration, as indicated in the message.

Recommended Action: Configure the interface to use one of the supported link modes, or replace the transceiver with one that supports the configured link mode.

CONGESTION_DROPS: Interface %s is experiencing congestion drops, %s

Severity: Info

Explanation: The interface's frame buffer limits have been exceeded, causing packets to be dropped

Recommended Action: If the problem persists, consider redesigning your network to avoid congestion

ERRDISABLE: %s error detected on %s.

Severity: Warning

Explanation: The switch detected the reported error condition on the interface, and disabled the interface

Recommended Action: The switch detected the reported error condition (errdisable cause) on the interface. As a precautionary measure, and to avoid the error condition from affecting the switch/network, the switch disables the interface. If recovery timer has been configured for the errdisable cause, the switch will attempt to recover the interface after the recovery timeout. The interface could also be recovered by performing the shutdown command, followed by the no shutdown command in the interface configuration mode.

ETHTOOLFAIL: SIOCETHTOOL %s (%s, interface %s): %s

Severity: Error

Explanation: The Linux kernel reported an error when accessing the given interface.

Recommended Action: If the problem persists, please contact customer support.

HOST_FLAPPING: Host %s in VLAN %s is flapping between interface %s and interface %s

Severity: Warning

Explanation: The MAC address was detected on multiple ports within a short timeframe.

Recommended Action: It is recommended to check your network for loops or MAC address conflicts.

IPv6_NEIGHBOR_CLEAR: IPv6 neighbors of VRF %s cleared by %s on %s (%s)

Severity: Notice

Explanation: IPv6 neighbors cleared by CLI command

Recommended Action: No action is required – this message is for information only.

IPv6_NEIGHBOR_INTERFACE_CLEAR: IPv6 neighbors of VRF %s for interface %s cleared by %s on %s (%s)

Severity: Notice

Explanation: IPv6 neighbors for interface cleared by CLI command

Recommended Action: No action is required – this message is for information only.

IPV6_NEIGHBOR_INTERFACE_IP_CLEAR: IP (%s) cleared from IPv6 neighbors of VRF %s for interface %s by %s on %s (%s)

Severity: Notice

Explanation: IP cleared from IPV6 interface by CLI command

Recommended Action: No action is required – this message is for information only.

LINKMODEUNCONFIGURED: Interface %s link mode is unconfigured

Severity: Warning

Explanation: The interface's link mode has not been configured. The interface lacks a proper default configuration.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

LINKMODEUNSUPPORTED: Unsupported link mode %s for interface %s

Severity: Warning

Explanation: The currently inserted transceiver does not support the link mode (speed and/or duplex) that has been configured for the interface.

Recommended Action: Configure the interface to use one of the supported link modes, or replace the transceiver with one that supports the configured link mode.

MACADDRBANKFULL: Unable to program %s host table entry for MAC address %s in VLAN %d due to hardware resource exhaustion

Severity: Warning

Explanation: The specified MAC address could not be programmed into the switching ASIC due to hash collisions in a bucket. Packets destined to the address will be flooded.

Recommended Action: Reduce the number of host table entries that need to be programmed into the switching ASIC. One or more of the following steps might be helpful: 1. Reduce the number of static mac entries. 2. Clear dynamic mac table entries. 3. Introduce additional layer 3 boundaries to reduce the number of MAC addresses. Please contact your technical support representative if you need additional assistance.

MAC_ADDR_TABLE_CLEAR: Clear MAC address table on %s, %s, %s by %s on %s (%s)

Severity: Notice

Explanation: MAC address table was cleared by CLI command

Recommended Action: No action is required – this message is for information only.

MAINTENANCE_DOWN: Interface %s has been shutdown for maintenance.

Severity: Info

Explanation: This interface has been shutdown for maintenance.

Recommended Action: No action is required – this message is for information only.

NETLINKFAIL: Cannot init netlink stats cache : %s Error %s

Severity: Error

Explanation: The Linux kernel reported an error when accessing the given interface.

Recommended Action: If the problem persists, please contact customer support.

POLLINKSTATUSFAIL: Failed to poll link status on interface %s (%s)

Severity: Warning

Explanation: An attempt to poll the interface's status failed.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PORT_ID_ERROR: Unable to allocate a port ID for interface %s

Severity: Error

Explanation: No unallocated port ID's are available.

Recommended Action: No action is required – this message is for information only.

PORT_ID_LIMIT_EXCEEDED: Ethernet port ID allocation exceeds maximum limit of %d. Some allocations are pending.

Severity: Error

Explanation: Some interface do not have port ID allocated and stay in pending allocation state. It can be a transient state during a bootup or a config change. Some interfaces might transition to inactive and free up port IDs.

Recommended Action: Determine if there is no more than maximum active interfaces in configuration.

PORT_ID_LIMIT_OK: Ethernet port ID allocation is within maximum limit. All allocations have succeeded.

Severity: Error

Explanation: Some interfaces have transitioned to inactive and freed up port IDs that are now assigned to previously pending port ID allocation active interfaces.

Recommended Action: No action is required – this message is for information only.

PORT_MODE_COMPATIBLE: Speed on interface %s is now compatible with the speed on %s.

Severity: Warning

Explanation: Interface speed configurations may affect other ports and be incompatible with each other – correcting an incompatibility clears the misconfiguration.

Recommended Action: This behavior is expected.

PORT_MODE_INCOMPATIBLE: Speed on interface %s is incompatible with the speed on %s.

Severity: Warning

Explanation: Interface speed configurations may affect other ports and be incompatible with each other, which causes a misconfiguration.

Recommended Action: This behavior is expected.

PORT_MODE_INCOMPATIBLE_IN_SPEED_GROUP: Speed on interface %s is incompatible with the setting of speed group %s.

Severity: Warning

Explanation: The interface speed configuration and speed group configuration are incompatible with each other.

Recommended Action: This behavior is expected.

SETADDRFAIL: Failed to set the MAC address of interface %s to %s

Severity: Warning

Explanation: An attempt to set the MAC address of the interface failed for an unknown reason.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SETDISFAIL: Failed to disable interface %s

Severity: Warning

Explanation: An attempt to disable the interface failed for an unknown reason.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SETENFAIL: Failed to enable interface %s

Severity: Warning

Explanation: An attempt to enable the interface failed for an unknown reason.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SETLINKMODEFAIL: Failed to set speed/duplex on interface %s to %s/%s (%s)

Severity: Warning

Explanation: An attempt to set the interface's speed/duplex mode failed.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SETMTUFAIL: Failed to set interface %s mtu

Severity: Warning

Explanation: An attempt to set the interface mtu failed for an unknown reason.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SETPAUSEPARAMFAIL: Failed to set pause parameters on interface %s (%s)

Severity: Warning

Explanation: An attempt to set the interface's pause parameters failed.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

STORMCONTROL_DISCARDS: Storm Control discarded packets on Interface %s: UUcast %L, Broadcast %L, Multicast %L, All %L

Severity: Info

Explanation: The interface's traffic is exceeding the configured storm-control threshold causing packets to be discarded

Recommended Action: No action is required – this message is for information only.

STORMCONTROL_INTF_SHUTDOWN: Interface %s has been shutdown since it exceeded/violated storm control threshold configuration

Severity: Warning

Explanation: The interface's traffic is exceeding the configured storm-control threshold causing port to be shutdown

Recommended Action: The interface will be re-enabled after the configured interval, unless the storm control action is to disable it. Use 'clear storm-control action disable' command to re-enable the interface manually in that case.

UNKNOWN_MULTICAST_FORWARDING_DISABLED: IPv4 Multicast sent to a group with no local members will be discarded in VLAN %d: %s.

Severity: Warning

Explanation: Multicast packets for groups that have not been learned by IGMP Snooping nor programmed via the CLI or Pim will be discarded in this VLAN because hardware resources are full

Recommended Action: Use fewer VLANs with unknown multicast traffic.

UNKNOWN_MULTICAST_FORWARDING_RESUMED: IPv4 Multicast sent to a group with no local members will be flooded normally in VLAN %d

Severity: Warning

Explanation: Multicast packets for groups that have not been learned by IGMP Snooping nor programmed via the CLI or Pim, will be flooded normally to the entire VLAN or router interfaces as expected.

Recommended Action: No action is required – this message is for information only.

UNKNOWN_MULTICAST_V6_FORWARDING_DISABLED: IPv6 Multicast sent to a group with no local members will be discarded in VLAN %d: %s.

Severity: Warning

Explanation: Multicast packets for groups that have not been learned by MLD Snooping nor programmed via the CLI or Pim will be discarded in this VLAN because hardware resources are full

Recommended Action: Use fewer VLANs with unknown multicast traffic.

UNKNOWN_MULTICAST_V6_FORWARDING_RESUMED: IPv6 Multicast sent to a group with no local members will be flooded normally in VLAN %d

Severity: Warning

Explanation: Multicast packets for groups that have not been learned by MLD Snooping nor programmed via the CLI or Pim, will be flooded normally to the entire VLAN or router interfaces as expected.

Recommended Action: No action is required – this message is for information only.

VLAN_ENCAP_TABLE_FULL: Unable to encapsulate %s packets on interface %s with VLAN %d due to hardware resource exhaustion

Severity: Warning

Explanation: The encapsulation could not be programmed due to insufficient hardware resources. Packets on the specified interface will no longer be encapsulated.

Recommended Action: To solve this issue, please reduce the number of vlan mappings that are currently configured and try again.

VLAN_FLOODSET_FORWARDING_DISABLED: Traffic sent to the vlan floodset in vlan %d will be discarded%s.

Severity: Error

Explanation: Broadcast and unknown DA traffic sent to the vlan floodset will be discarded in this VLAN. The vlan floodset could not be programmed because hardware resources are full.

Recommended Action: Remove multicast groups or vlans in order to reduce hardware usage. When hardware resources are freed, the vlan floodset will automatically be programmed

VLAN_FLOODSET_FORWARDING_RESUMED: Traffic sent to the vlan floodset will be forwarded normally in vlan %d

Severity: Error

Explanation: Broadcast and unknown DA traffic sent to the vlan floodset will be forwarded normally in this VLAN.

Recommended Action: No action is required – this message is for information only.

VLAN_MAC_LIMIT_REACHED: Configured limit of %d for locally learned MAC entries reached for VLAN %d. No new MAC entries will be learned on the specified VLAN but bridging will continue.

Severity: Info

Explanation: Configuration is limiting the number of locally learned MAC entries on the specified VLAN and the limit is reached. Bridging will continue as normal but no new MAC entries will be learned on this VLAN until the VLAN is no longer at limit.

Recommended Action: No action is required – this message is for information only.

VLAN_MAPPING_CONFLICT: VLAN mapping %d to %d for interface %s on %s required by %s is already in use by %s

Severity: Warning

Explanation: The specified VLAN mapping has already been programmed, and now conflicts with the other source

Recommended Action: To solve this conflict, please remove the configuration from one of the sources and try again.

VLAN_MAPPING_PROGRAMMED: VLAN mapping %d to %d for interface %s on %s required by %s is now programmed

Severity: Warning

Explanation: The conflicting config from the other source has been removed and the config from this source has been programmed

Recommended Action: No action is needed

VLAN_MAPPING_TABLE_FULL: Unable to map VLAN %d to %d for interface %s on %s due to hardware resource exhaustion

Severity: Warning

Explanation: The specified VLAN mapping could not be programmed due to insufficient hardware resources. Packets on the original VLAN will no longer be mapped.

Recommended Action: To solve this issue, please reduce the number of vlan mappings that are currently configured and try again.

VNIVLANMAPFULL: Unable to program VLAN %d to VNI %d mapping due to hardware resource exhaustion.

Severity: Warning

Explanation: The specified mapping could not be programmed into the switching ASIC. Remote VXLAN packets destined for the specified VNI from the specified VLAN will not be forwarded.

Recommended Action: Reduce the number of such mappings that need to be programmed into the switching ASIC. Please contact your technical support representative if you need additional assistance.

VRF_ASSIGNMENT_FAILED: Failed to assign interface %s to %s

Severity: Warning

Explanation: An attempt to assign the interface to a VRF failed.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

VXLAN_CORE_SIDE_FLOODSET_FORWARDING_DISABLED: Traffic sent to the vxlan core side floodset in vlan %d will be discarded.

Severity: Error

Explanation: Broadcast and unknown DA traffic sent to the vlan floodset will be discarded in this VLAN. The vxlan core side floodset could not be programmed because hardware resources are full.

Recommended Action: Remove multicast groups or vlans in order to reduce hardware usage. When hardware resources are freed, the vlan floodset will automatically be programmed

VXLAN_CORE_SIDE_FLOODSET_FORWARDING_RESUMED: Traffic sent to the vxlan core side floodset will be forwarded normally in vlan %d

Severity: Error

Explanation: Broadcast and unknown DA traffic sent to the vxlan core side floodset will be forwarded normally in this VLAN.

Recommended Action: No action is required – this message is for information only.

2.37 EVENTMON Messages

DB_WRITE_FAILED: A sqlite %s exception occurred when writing to the EventMon database

Severity: Error

Explanation: An error occurred when trying to write to EventMon Database

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

2.38 EVPN Messages

AD_ROUTE_RT_LIMIT_EXCEED: Per MAC-VRF export RT count limit of %u exceeded during AD per ES route advertisement

Severity: Error

Explanation: One of the MAC-VRFs is found to have export RT count greater than the supported max limit. The advertised AD per ES routes may not have all the configured export RTs of respective MAC-VRFs

Recommended Action: Verify that number of export RTs in MAC-VRFs sharing an ES are within the supported count limit.

DEFAULT_GATEWAY_IP_NOT_PRESENT: Received default-gateway extended community for IP address %s on VLAN: %d that is not configured as default-gateway IP on this device

Severity: Error

Explanation: Received an EVPN type2 MAC-IP advertisement with default-gateway extended community with IP address that is not configured as default gateway (virtual address) on this device

Recommended Action: Check the virtual IP address configuration on both devices and correct them to have identical virtual IP addresses

DF_ELECTION_CONFLICT: Originating router IP conflict detected for esid %s

Severity: Error

Explanation: A remote PE sent an ES route with originating router IP that matches the one used by local PE. The DF election result may not be correct.

Recommended Action: Verify that the BGP peers are configured properly.

DROP_TXUPDATE_NEXTHOPSELF_NOT_SUPPORTED: Dropped %s updates as nexthop-self is not supported for this Evpn route type

Severity: Error

Explanation: Evpn doesn't support nexthop-self for this route type

Recommended Action: No action is required – this message is for information only.

DUP_VNI_ROUTERMAC: Evpn nexthop (vtep: %s, vni: %d, router mac: %s) has been ignored: vni %d, router mac %s cannot be present on multiple vteps.

Severity: Error

Explanation: An evpn nexthop has been ignored because (vni, router mac) of the nexthop is present on multiple vteps. In Arista EOS, a (vni, router mac) can be present only on one vtep.

Recommended Action: Change the configuration on the vteps so that a (vni, router mac) is present only on one vtep.

DUP_VNI_ROUTERMAC_CLEAR: Evpn nexthop conflict for (vni: %d, router mac: %s) is resolved.

Severity: Info

Explanation: An evpn nexthop was ignored earlier because the (vni, router mac) of the nexthop was present on multiple vteps. The nexthop is no longer ignored because (vni, router mac) of the nexthop is now present only on one vtep.

Recommended Action: No action is required. An error condition got cleared.

INTERCONNECT_ES_ACTIVE: Operational State on ES %s, changed state to active

Severity: Info

Explanation: The interconnect ES becomes active.

Recommended Action: No action is required – this message is for information only.

INTERCONNECT_ES_INACTIVE: Operational State on ES %s, changed state to inactive

Severity: Info

Explanation: The interconnect ES is no longer in operation and becomes inactive.

Recommended Action: No action is required – this message is for information only.

INVALID_ETID: Invalid Ethernet tag in EVPN path %s

Severity: Warning

Explanation: The Ethernet tag advertised with the EVPN path is MAX_ETID (0xffffffff), which is invalid. This is indicative of a malformed incoming BGP update message.

Recommended Action: Contact your technical support representative for the BGP peer device

INVALID_TUNNEL_ENCAP: Unsupported tunnel encapsulation for EVPN path %s

Severity: Warning

Explanation: The prefix advertised in the EVPN path is not reachable through VXLAN encapsulation, Arista EOS only supports VXLAN tunneling

Recommended Action: Verify that the BGP peer that originated / advertised the EVPN path is configured to support VXLAN encapsulation.

INVALID_VTEP_IP: Invalid VTEP address for EVPN path %s

Severity: Warning

Explanation: The VTEP IP advertised with the EVPN path is not a valid unicast IP address

Recommended Action: Verify the VXLAN VTEP IP configuration on the BGP peer

INVALID_VTEP_ROUTER_MAC: Invalid VTEP router MAC for EVPN path %s

Severity: Warning

Explanation: The MAC address advertised with the EVPN path is not a valid unicast MAC address

Recommended Action: Verify the router MAC configuration on the BGP peer

MAC_VRF_MAX_ROUTES_EXCEEDED: MAC-VRF %s has exceeded its configured maximum total number of routes (%d)

Severity: Notice

Explanation: EVPN has received more routes than it is configured to accept for this MAC-VRF

Recommended Action: Determine whether the number of installed routes on this MAC-VRF is acceptable. If yes, increase the maximum-routes limit. If no, consider clearing dynamically learned MAC entries on this MAC-VRF or try to reduce the routes being shared by peers that export this MAC-VRF.

MAX_L2ECMP_EXCEEDED: The number of multi-homed edges connected to ESI %s has exceeded the maximum number for load balancing. Traffic forwarding will be limited to %d destination TEPs.

Severity: Warning

Explanation: The number of available TEPs for a Ethernet Segment exceeds the maximum supported for load balancing.

Recommended Action: No action is required – this message is for information only.

MPLS_ARP_SUPPRESSION_ESI_HW_RESOURCE_FULL: Hardware resources are insufficient to process incoming ARP requests

Severity: Error

Explanation: The device may not send the ESI label for ARP requests ingressing on the device.

Recommended Action: Reconfigure the network to reduce the scale of the ethernet segments.

MPLS_ARP_SUPPRESSION_ESI_HW_RESOURCE_NORMAL: Hardware resources are available to process incoming ARP requests

Severity: Error

Explanation: The device will send the ESI label for ARP requests ingressing on the device.

Recommended Action: No action is required – this message is for information only.

MPLS_SHARED_ESI_HW_RESOURCE_FULL: Hardware resources are insufficient to allocate the shared ESI label for all the peers of some ethernet segments.

Severity: Error

Explanation: The switch may send the ESI label only to the designated forwarder of some ethernet segments.

Recommended Action: Reconfigure the network to reduce the number of peers for ethernet segments with shared ESI label configured.

MPLS_SHARED_ESI_HW_RESOURCE_NORMAL: Hardware resources are available to send shared ESI label to all the peers of all ethernet segments.

Severity: Error

Explanation: The switch will send the shared ESI label to all the peers of all the ethernet segments.

Recommended Action: No action is required – this message is for information only.

MPLS_SHARED_ESI_INDEX_CONFLICT: EVPN MPLS shared ESI index %d is configured on multiple interfaces. Shared ESI labelling will be disabled for all interfaces with this conflicting ESI index

Severity: Error

Explanation: Multiple interfaces are sharing an ESI label, causing the shared ESI label feature to be disabled

Recommended Action: Adjust the local BGP configuration

MPLS_SHARED_ESI_INDEX_CONFLICT_RECOVERY: EVPN MPLS shared ESI index %d is no longer configured on multiple interfaces

Severity: Error

Explanation: An ESI label that was assigned to multiple interfaces now belongs to at most one

Recommended Action: No action is required – this message is for information only.

NON_ZERO_ESI: EVPN path not considered for import, multi-homing is not supported: %s

Severity: Warning

Explanation: The segment identifier advertised with the EVPN path is non-zero. Arista EOS does not support multi-homing for EVPN IP prefix routes

Recommended Action: Adjust the EVPN configuration on the BGP peer

NON_ZERO_ETID: Unsupported Ethernet tag in EVPN path %s

Severity: Warning

Explanation: The Ethernet tag advertised with the EVPN path is non-zero. Arista EOS does not support VLAN-aware mode for IP prefix routes

Recommended Action: Adjust the EVPN configuration on the BGP peer

NON_ZERO_GATEWAY_ADDRESS: Unsupported gateway address in EVPN path %s

Severity: Warning

Explanation: The gateway address advertised with the EVPN path is non-zero. Arista EOS does not support non-zero gateway addresses for EVPN IP prefix routes

Recommended Action: Adjust the EVPN configuration on the BGP peer

SUPPRESSED_DUPLICATE_MAC: MAC address %s on VLAN %u has been suppressed for moving %u or more times within the past %f seconds

Severity: Error

Explanation: This MAC address has been flapping between local and remote EVPN peers. EVPN routes for this address will be ignored until the conflict is resolved.

Recommended Action: Take corrective action to resolve MAC conflict. Call 'clear bgp evpn host-flap' to remove MACs from the suppression list.

SUPPRESSED_DUPLICATE_MAC_RECOVERY: MAC address %s on VLAN %u has been removed from the MAC move suppression list

Severity: Error

Explanation: MAC address that was suppressed for exceeding the host flap threshold has been cleared from the suppression list.

Recommended Action: No action is required – this message is for information only.

UNSUPPORTED_VNI: Unsupported VNI for EVPN path %s

Severity: Warning

Explanation: Arista EOS does not support VNI 0 for L3 EVPN

Recommended Action: Verify that the BGP peer that originated / advertised the EVPN path is configured with non-zero VNI.

2.39 EXTENSION Messages

INSTALLED: Extension %s has been installed.

Severity: Info

Explanation: The extension has been installed.

Recommended Action: No action is required – this message is for information only.

INSTALLING: Installing extension %s, version %s, SHA-1 %s

Severity: Info

Explanation: EOS has started to install the extension.

Recommended Action: No action is required – this message is for information only.

INSTALL_ERROR: Extension %s failed to install: %s

Severity: Error

Explanation: The extension failed to install. The log message may contain a reason why installation failed, such as a missing dependency.

Recommended Action: Determine why the extension failed to install. If a dependency is missing, install it. If you are unsure how to proceed, contact the developer of the extension or your support representative.

LOAD_ERROR: Extension failed to load: %s

Severity: Error

Explanation: The extension failed to load. The log message or extension load log file may contain a reason why it failed, such as a broken config file.

Recommended Action: Determine why the extension failed to load. If you are unsure how to proceed, contact the developer of the extension or your support representative.

RESTARTING_AGENTS: Extension installation finalization: restarting agents: %s

Severity: Info

Explanation: Agents are being restarted by operator request, in order to cause a software upgrade/patch to become effective.

Recommended Action: No action is required – this message is for information only.

SIGNATURE_INVALID: Extension %s has an invalid signature: %s

Severity: Warning

Explanation: The extension has an invalid signature, or the signature could not be determined. The log message may contain a reason for the error.

Recommended Action: Examine the extension and determine if the contents are correct. If the contents are not as expected, uninstall the extension immediately. If you are unsure how to proceed, contact the developer of the extension or your support representative.

SIGNATURE_VALID: Extension %s has a valid signature.

Severity: Info

Explanation: The extension has a valid digital signature.

Recommended Action: No action is required – this message is for information only.

STATUS_SAVE_ERROR: Failed to write extension status to %s: %s

Severity: Error

Explanation: Cannot write extension status to the filesystem. Extension status may not be restored if Sysdb restarts.

Recommended Action: Check if the filesystem is full.

UNINSTALLED: Extension %s has been uninstalled.

Severity: Info

Explanation: The extension has been uninstalled.

Recommended Action: No action is required – this message is for information only.

UNINSTALLING: Uninstalling extension %s

Severity: Info

Explanation: EOS has started to uninstall the extension.

Recommended Action: No action is required – this message is for information only.

UNINSTALL_ERROR: Extension %s failed to uninstall: %s

Severity: Error

Explanation: The extension failed to uninstall. The message may contain a reason why uninstallation failed, such as a dependency from another installed extension.

Recommended Action: Determine why the extension failed to uninstall. Some extensions may not support uninstall, requiring a reboot of the switch to remove the extension. If you are unsure how to proceed, contact the developer of the extension or your support representative.

2.40 FABRIC Messages

CARD_SHUTDOWN_INSUFFICIENT_BANDWIDTH: Fabric bandwidth for ports on %s reduced to %d%% (Threshold %d%%), %s will be powered off

Severity: Warning

Explanation: Fabric bandwidth fell below the configured threshold due to multiple failed fabric links. The card will be powered off.

Recommended Action: Please contact your technical support representative.

LINK_STATE_CHANGE: Line protocol on fabric interface %s, changed state to %s

Severity: Notice

Explanation: The link-layer connection on the given interface has come up or down. If it is not up, then internal forwarding through this fabric interface is not possible.

Recommended Action: This message is for information only and may occur during normal operation. If the link state changes continue to occur outside of card insertions and removals or configuration changes, contact your technical support representative.

WARNING_INSUFFICIENT_BANDWIDTH: Fabric bandwidth for ports on %s reduced to %d%% (Threshold %d%%)

Severity: Warning

Explanation: Fabric bandwidth fell below the configured threshold due to multiple failed fabric links.

Recommended Action: Please contact your technical support representative.

2.41 FEC Messages

RECOMP_DEDUPLICATION_COMPLETED: Resilient ECMP FEC deduplication has completed.

Severity: Info

Explanation: Resilient ECMP FEC deduplication completes when the ECMP FEC hardware resource usage goes below the configured low threshold.

Recommended Action: No action is required – this message is for information only.

RECOMP_DEDUPLICATION_STARTED: Resilient ECMP FEC deduplication has started.

Severity: Info

Explanation: Resilient ECMP FEC deduplication begins when ECMP FE hardware resource usage goes above the configured high threshold. Traffic disruption may temporarily occur while Resilient ECMP FEC deduplication is occurring.

Recommended Action: No action is required – this message is for information only.

2.42 FHRP Messages

ADVERTISEMENT_DROPPED: Advertisement dropped on interface %s for virtual address %s

Severity: Warning

Explanation: Gratuitous ARP/Neighbor Advertisement messages exceed system maximum rate

Recommended Action: May require increasing configured advertisement interval.

2.43 FLOW Messages

ERROR_TIMEOUT: Flow %s programming failed as Tcam Programming Timeout

Severity: Error

Explanation: The switch is unable to program the flow.

Recommended Action: No action is required – this message is for information only.

ERROR_UNSUPPORTED_ACTION: Flow %s programming failed as the %s action is unsupported on %s.

Severity: Error

Explanation: The switch is unable to program the flow with the specified action on the specified hardware

Recommended Action: No action is required – this message is for information only.

TCAM_ERROR: Unable to add TCAM entry for OpenFlow/DirectFlow flow %s, error %s

Severity: Error

Explanation: The specified flow has not been created in hardware since TCAM entry could not be added

Recommended Action: If the error is because there is no space left in TCAM, remove some flows and retry adding this flow

2.44 FLOWCONTROL Messages

PAUSE_FRAME_RECEIVED: Flow Control receive is disabled on Interface %s.Interface received %u pause frames.

Severity: Warning

Explanation:

Recommended Action: No action is required – this message is for information only.

2.45 FLOWSPEC Messages

HW_RESOURCE_FULL: Failed programming %d %s rules for the BGP Flowspec policy '%s' on %s: Rules exceed hardware capacity.

Severity: Error

Explanation: The switch is unable to program all BGP Flowspec rules due to insufficient hardware resources.

Recommended Action: Reduce number of BGP Flowspec rules or reconfigure other features to free up hardware resources for BGP Flowspec

HW_RESOURCE_NORMAL: Successfully programmed %d %s rules for the BGP Flowspec policy '%s' on %s: Rules are within hardware capacity limits.

Severity: Error

Explanation: The switch was able to program all BGP Flowspec rules in the hardware.

Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_UNSUPPORTED: unsupported action %s rule for BGP Flowspec. It will be ignored.

Severity: Warning

Explanation: Please configure your flowspec rules with supported actions.

Recommended Action: No action is required – this message is for information only.

POLICER_RESOURCE_FULL: Insufficient hardware resources to program the police action for the policy-map %s on %s %s.

Severity: Error

Explanation: Remove some features using policer banks and reapply the policy-map to the interface to enable police action.

Recommended Action: No action is required – this message is for information only.

2.46 FLOWTRACKING Messages

ACTIVE: %s flow tracking is active.

Severity: Info

Explanation: Flow tracking is active.

Recommended Action: No action is required – this message is for information only.

COLLECTOR_ACTIVE: %s collector %s for exporter %s in %s flow tracker %s is active.

Severity: Info

Explanation: Packets will be exported to this collector if the exporter is active.

Recommended Action: No action is required – this message is for information only.

COLLECTOR_INACTIVE: %s collector %s for exporter %s in %s flow tracker %s is inactive.

Severity: Info

Explanation: Packets will not be exported to this collector.

Recommended Action: Ensure that if collector is configured, its IP address is valid.

EXPORTER_ACTIVE: %s exporter %s in VRF %s, in %s flow tracker %s is active.

Severity: Info

Explanation: This exporter is ready to export packets.

Recommended Action: No action is required – this message is for information only.

EXPORTER_INACTIVE: %s exporter %s in VRF %s, in %s flow tracker %s is inactive.

Severity: Info

Explanation: This exporter is not ready to export packets.

Recommended Action: Ensure that both the local interface, and at least one collector, have been configured, and that both have valid IP addresses.

HARDWARE_OFFLOAD_ACTIVE: Sampled flow tracking hardware offload for %s traffic is active.

Severity: Info

Explanation: Flow tracking hardware offload is active.

Recommended Action: No action is required – this message is for information only.

HARDWARE_OFFLOAD_INACTIVE: Sampled flow tracking hardware offload for %s traffic is inactive.

Severity: Info

Explanation: Flow tracking hardware offload is inactive.

Recommended Action: No action is required – this message is for information only.

INACTIVE: %s flow tracking is inactive.

Severity: Info

Explanation: Flow tracking is inactive.

Recommended Action: No action is required – this message is for information only.

SAMPLE_MODE_CONFLICT: Sampled flow tracking on %s is inactive due to sampling mode mismatch with the parent interface

Severity: Warning

Explanation: If sampled flow tracking is enabled on the parent interface with a different sampling mode than the subinterface, it stays active on the parent interface, and inactive on the subinterface.

Recommended Action: Disable sampled flow tracking on the parent interface, or the subinterface to avoid the conflict

SAMPLE_MODE_NO_CONFLICT: Sampled flow tracking on %s is no longer inactive due to sampling mode mismatch with the parent interface

Severity: Warning

Explanation: The parent interface no longer has a different sampling mode than the subinterface.

Recommended Action: No action is required – this message is for information only.

TRACKER_ACTIVE: %s flow tracker %s is active on interface %s for %s direction.

Severity: Info

Explanation: Flow tracker is active on an interface for the specified direction.

Recommended Action: No action is required – this message is for information only.

TRACKER_INACTIVE: %s flow tracker %s is inactive on interface %s for %s direction.

Severity: Info

Explanation: Flow tracker is inactive on an interface for the specified direction.

Recommended Action: No action is required – this message is for information only.

2.47 FPGA Messages

APPLICATION_CLEAR_FAILED: Clearing %s instance %s from FPGA %s failed

Severity: Error

Explanation: Check the MakoFpga and MakoProfile logs for more details

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

APPLICATION_INTERFACE_CONFIG_REMOVED: Functional interface configuration on FPGA %s removed due to incompatible application profile for configuration. current profile: %s previous profile: %s

Severity: Info

Explanation: Application functional interface configuration removed

Recommended Action: No action is required – this message is for information only.

APPLICATION_LOAD_FAILED: Loading %s instance %s onto FPGA %s failed

Severity: Error

Explanation: Check the MakoFpga and MakoProfile logs for more details

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

APPLICATION_UNSUPPORTED: FPGA application %s is not supported by EOS version %s.

Severity: Error

Explanation: The current EOS version does not support the version of the FPGA application.

Recommended Action: Install an EOS version that supports this version of FPGA application. If you are unsure how to proceed, please contact your support representative.

HITLESS_RESET_FAILED: hitless reset of the %s fpga failed.

Severity: Info

Explanation: hitless reset of the fpga image failed.

Recommended Action: No action is required – this message is for information only.

HITLESS_RESET_SUCCEEDED: hitless reset of the %s fpga succeeded.

Severity: Info

Explanation: hitless reset of the fpga image succeeded.

Recommended Action: No action is required – this message is for information only.

2.48 FPGASWITCH Messages

CONTROLPLANE_DOWN: Control plane for FPGA switch instance %d (interface %s) is DOWN. The switch is unable to process control plane traffic.

Severity: Error

Explanation: Control plane for FPGA switch instance %d (interface %s) is DOWN. The switch is unable to process control plane traffic.

Recommended Action: Verify and reconnect the layer 1 path for control plane interface to an appropriate CPU-bound interface. Also verify the associated CPU-bound interface is UP.

CONTROLPLANE_UP: Control plane for FPGA switch instance %d (interface %s) is UP. The switch is operational and can now process control plane traffic.

Severity: Error

Explanation: Control plane for FPGA switch instance %d (interface %s) is UP. The switch is operational and can now process control plane traffic.

Recommended Action: No action required.

LANZ_BUFFER_OVER_THRESHOLD: Interface %s %s buffer is over high threshold of %u bytes

Severity: Info

Explanation: Number of bytes in a buffer is over its high threshold.

Recommended Action: No action is required – this message is for information only.

LANZ_BUFFER_UNDER_THRESHOLD: Interface %s %s buffer is under low threshold of %u bytes

Severity: Info

Explanation: Number of bytes in a buffer is under its low threshold.

Recommended Action: No action is required – this message is for information only.

NAT_MULTICAST_OVERLOAD_NOT_SUPPORTED: Multicast NAT overload configuration is not supported

Severity: Warning

Explanation: The switch is unable to program multicast NAT overload. Multicast NAT overload feature is not supported.

Recommended Action: Remove configuration of multicast NAT overload.

2.49 FRU Messages

CARD_DISABLED: Card %s has been disabled until %s. model: %s rev: %s serial number: %s epoch: %s

Severity: Error

Explanation: Card disabled

Recommended Action: Reboot the system or install software that supports the card.

CARD_FAILURE: Hardware failure when reading the card in slot %s

Severity: Error

Explanation: A fatal error occurred when attempting to access a card.

Recommended Action: This is a software or hardware problem. It may be necessary to upgrade software or replace the card.

CARD_INSERTED: Card %s has been inserted. model: %s rev: %s serial number: %s

Severity: Info

Explanation: Card insertion detected

Recommended Action: No action is required – this message is for information only.

CARD_INTERFACE_CONFIG_REMOVED: Interface configuration on %s removed due to incompatible card model for configuration. current model: %s previous model: %s

Severity: Info

Explanation: Card interface configuration removed

Recommended Action: No action is required – this message is for information only.

CARD_REMOVED: Card %s has been removed. model: %s rev: %s serial number: %s

Severity: Info

Explanation: Card removal detected

Recommended Action: No action is required – this message is for information only.

CARD_SUBOPTIMAL_COOLING: Card %s is located in a suboptimal slot for chassis cooling. It is optimized for slots %s

Severity: Error

Explanation: The inserted card is located in a suboptimal slot for chassis cooling.

Recommended Action: Verify that the card is inserted into an optimal slot for chassis cooling. Please contact support for information on optimal card configurations.

CARD_UNSUPPORTED: Card in slot %s is unsupported (code %d)

Severity: Error

Explanation: The inserted card is not supported by the running software. The card is not brought online.

Recommended Action: Install software that supports the card.

CARD_UNSUPPORTED_IN_CHASSIS: Card in slot %s is unsupported in this chassis. %s

Severity: Info

Explanation: The inserted card is not supported in this chassis.

Recommended Action: Remove the card.

CHASSIS_FAILURE: Hardware failure when accessing the chassis

Severity: Emergency

Explanation: A fatal error occurred when attempting to access the chassis.

Recommended Action: Upgrade software or contact support. System functionality may be severely limited

CHASSIS_PARTIALLY_UNSUPPORTED: The chassis is partially unsupported because %s

Severity: Warning

Explanation: The chassis is partially unsupported. System functionality may be partially limited.

Recommended Action: Contact support for more information.

CHASSIS_UNSUPPORTED: Chassis is unsupported

Severity: Emergency

Explanation: The chassis is not supported by the running software. System functionality may be severely limited.

Recommended Action: Install software that supports the chassis.

DEVICE_DRIVER: Fatal software failure for the device in slot %s

Severity: Error

Explanation: A fatal error occurred when attempting to instantiate management software for the device.

Recommended Action: Upgrade software to the current release. Contact support if the problem persists following an upgrade.

DEVICE_INSERTED: Device in slot %s has been inserted

Severity: Info

Explanation: Device insertion detected

Recommended Action: No action is required – this message is for information only.

DEVICE_REMOVED: Device in slot %s has been removed

Severity: Info

Explanation: Device removal detected

Recommended Action: No action is required – this message is for information only.

DEVICE_UNSUPPORTED: Device in slot %s is not supported

Severity: Error

Explanation: The device inserted in the above slot is unknown and not supported by the software

Recommended Action: Replace the device with a one supported by the version of your software.

FAN_INSERTED: %s has been inserted. model: %s

Severity: Info

Explanation: The specified fan has been inserted.

Recommended Action: No action is required – this message is for information only.

FAN_REMOVED: %s has been removed. model: %s

Severity: Info

Explanation: The specified fan has been removed or is not properly seated.

Recommended Action: Reinsert the fan, or check that the fan is properly inserted.

FAN_UNSUPPORTED: Fan in slot %s is unsupported

Severity: Error

Explanation: Software detected unsupported fan in system.

Recommended Action: Replace unsupported fan to improve system performance.

MODULE_DEPRECATED: Module %s%s: %s is not supported. The last supported EOS version for this module is %s

Severity: Emergency

Explanation: The current hardware has been deprecated and is not supported by the running software. System functionality is severely limited.

Recommended Action: Install older software and reboot

NOLBTDUMP: Unable to determine About firmware version (%s)

Severity: Error

Explanation: nvramtool/lbtdump command failed

Recommended Action: No action is required – this message is for information only.

POWERSUPPLY_DRIVER: Fatal software failure for the power supply in slot %s

Severity: Error

Explanation: A fatal error occurred when attempting to instantiate management software for the power supply.

Recommended Action: Upgrade software to the current release. Contact support if the problem persists following an upgrade.

POWERSUPPLY_FAILURE: Power Supply in slot %d failed

Severity: Error

Explanation: The power supply inserted in the above slot could not be identified due to hardware errors

Recommended Action: Check that the power supply is properly inserted. It may be necessary to replace the power supply.

POWERSUPPLY_INCOMPATIBILITY: Power supply %s in slot %s is not fully compatible with the %s power supply in slot %s

Severity: Warning

Explanation: Software detected incompatible power supplies in system. Some features may not work as intended

Recommended Action: Incompatible power supply should be replaced with a compatible model.

POWERSUPPLY_INSERTED: Power Supply in slot %d has been inserted.%s

Severity: Info

Explanation: Power supply insertion detected

Recommended Action: No action is required – this message is for information only.

POWERSUPPLY_OUT_OF_DATE: Power supply in slot %s is out-of-date.

Severity: Warning

Explanation: Software detected out-of-date power supply in system.

Recommended Action: Out-of-date power supply should be replaced with newer model.

POWERSUPPLY_REMOVED: Power Supply in slot %d has been removed.%s

Severity: Info

Explanation: Power supply removal detected

Recommended Action: No action is required – this message is for information only.

POWERSUPPLY_UNSUPPORTED: Power Supply in slot %d is not supported

Severity: Error

Explanation: The power supply inserted in the above slot is unknown and not supported by the software

Recommended Action: Replace the power supply with a power supply supported by the version of your software.

POWERSUPPLY_UNSUPPORTED_IN_SYSTEM: Power supply in slot %s is unsupported in system.

Severity: Error

Explanation: Software detected unsupported power supply in system.

Recommended Action: Replace unsupported power supply to improve system performance.

SEEPROM_CORRUPTED: A corrupted SEEPROM was detected on device %s. Repair was unsuccessful.

Severity: Error

Explanation: SEEPROMs can very rarely be corrupted. This SEEPROM was not able to be repaired from the redundant information available. SEEPROMs contain configuration information for the system hardware. While a corruption is rare, provided redundant information allows the system to repair it.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SEEPROM_REPAIRED: Successfully repaired device %s corrupted SEEPROM.

Severity: Info

Explanation: SEEPROMs can very rarely be corrupted. Full repair was possible from redundant information. No action needs to be taken. SEEPROMs contain configuration information for the system hardware. While a corruption is rare, provided redundant information allows the system to repair it.

Recommended Action: No action is required – this message is for information only.

SSD_DETECTION_ERROR: Failed to detect SSD on bootup. Error msg: %s

Severity: Error

Explanation: Failed to detect SSD during system bootup. This can happen if the device is not recognized by the driver or if the system encountered an error when booting up.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SSD_PARTITION_NOT_MOUNTED: SSD partition %s not mounted as %s

Severity: Error

Explanation: The specified SSD partition is not currently mounted. This can happen if the partition is not properly formatted or if the SSD device was not detected by the driver.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SSD_UNEXPECTED_PARTITION_MOUNTED: Unexpected partition %s mounted as %s. Expected SSD partition %s to be mounted instead.

Severity: Error

Explanation: Expected the specified SSD partition to be mounted at the mount point but a different partition is mounted instead. This is unexpected.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SYSTEM_DEPRECATED: %s is not supported. The last supported EOS version for this system is %s

Severity: Emergency

Explanation: The current hardware has been deprecated and is not supported by the running software. System functionality is severely limited.

Recommended Action: Install older software and reboot

SYSTEM_DRIVER: Fatal software failure for this system

Severity: Emergency

Explanation: A fatal error occurred when attempting to instantiate management software for the system.

Recommended Action: This is probably a problem with the installed software. It may be necessary to upgrade software.

SYSTEM_FAILURE: Failed to read hardware description of this system rcode %d)

Severity: Emergency

Explanation: A fatal error occurred when attempting to read the factory-programmed hardware description of this system. This may be a hardware or software failure. System functionality may be severely limited.

Recommended Action: Install new software and restart the Fru Agent, or replace the hardware.

SYSTEM_IMAGE_RESTRICTION_2GB: %s is only supported in 2GB images. Please remove the current EOS image from /mnt/flash and upgrade to a 2GB image such as EOS-2GB.swi, EOS-2GB-PDP.swi, etc

Severity: Emergency

Explanation: This system is not supported in the loaded EOS image and system functionality is severely limited.

Recommended Action: Remove the current EOS image from /mnt/flash and upgrade to a 2GB image

SYSTEM_UNSUPPORTED: %s is not supported.

Severity: Emergency

Explanation: The current hardware is not supported by the running software. System functionality is severely limited.

Recommended Action: Install software supporting the hardware and reboot

TRANSCEIVER_INSERTED: A transceiver for interface %s has been inserted. manufacturer: %s model: %s part number %s rev %s serial number %s

Severity: Info

Explanation: Transceiver insertion detected

Recommended Action: No action is required – this message is for information only.

TRANSCEIVER_REMOVED: The transceiver for interface %s has been removed

Severity: Info

Explanation: Transceiver removal detected

Recommended Action: No action is required – this message is for information only.

2.50 FTW Messages

PCI_HAM_SETUP_WARNING: Failed to setup PCI Device for Fail-To-Wire Support

Severity: Warning

Explanation: Please contact Arista customer support.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SWITCH_CLOSE: Fail-To-Wire switch in close state.

Severity: Error

Explanation: Fail-To-Wire HW relay is tripped due to hw/sw instability. Some of the local WAN ports are disconnected by rerouting the WAN carriers to remote HA peer ports, if they have been appropriately connected to remote HA peer.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SWITCH_OPEN: Fail-To-Wire switch in open state.

Severity: Error

Explanation: Fail-To-Wire HW relay is restored back to the normal state as the system has recovered from the previously experienced instability. The local WAN ports should now be connected to the WAN carrier.

Recommended Action: No action is required – this message is for information only.

2.51 FWK Messages

MOUNT_CLOSED_EXIT: Process exiting.

Severity: Error

Explanation: A runtime subsystem lost contact with a peer process.

Recommended Action: Please contact technical support.

MOUNT_PEER_CLOSED: Peer closed socket connection. (%s)(%s)

Severity: Error

Explanation: A runtime subsystem lost contact with a peer process.

Recommended Action: Please contact technical support.

NOTIFIEELIST_CANARY: The notifiedList of %s object %s contains %u notifieds.

Severity: Info

Explanation: Diagnostic output generated if debugs are enabled.

Recommended Action: No action is required – this message is for information only.

SOCKET_CLOSE_LOCAL: Closing connection to %s at %s (%s)

Severity: Error

Explanation: A runtime subsystem lost contact with a peer process.

Recommended Action: Please contact technical support.

SOCKET_CLOSE_REMOTE: Connection to %s at %s closed by peer (%s)

Severity: Error

Explanation: A runtime subsystem lost contact with a peer process.

Recommended Action: Please contact technical support.

SOCKET_NO_RECONNECT: Not attempting to reconnect to %s due to unrecoverable error (%s)

Severity: Error

Explanation: A runtime subsystem did not attempt to reconnect to the peer process due to an unrecoverable error.

Recommended Action: Reconfigure the feature after clearing the underlying cause of the connection failure. Please contact technical support for further support

2.52 GMP Messages

IGMP_QUERY_VERSION_CONFIGURED_DISCREPANCY: IGMP version %d query heard on vlan %d by a querier configured to version %d.

Severity: Warning

Explanation: The switch detected an IGMP query message of a different version than the version that is currently configured.

Recommended Action: Configure all queriers on the network to use the same querier version

2.53 HARDWARE Messages

ALTA_POWER_RAILS_ADJFAILED: Failed to perform FM6000 power rail adjustment

Severity: Warning

Explanation: The system could not perform an adjustment of FM6000 power rails.

Recommended Action: Rebooting the system may solve the problem. This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

ALTA_POWER_RAILS_ADJUSTED: Successfully adjusted FM6000 power rails.

Severity: Info

Explanation: Voltage on FM6000 power rails was adjusted to its optimal value.

Recommended Action: No action is required – this message is for information only.

BMC_COMMUNICATION_ERROR: The CPU is unable to communicate with the BMC using IPMI.

Severity: Emergency

Explanation: The CPU is unable to communicate with the BMC using IPMI. This could be due to an ipmi driver issue, an unsupported BMC Firmware, or some other hardware issue.

Recommended Action: Please ensure you are running supported BMC firmware and that the BMC is in good health.

BMC_FW_UNSUPPORTED: The current BMC firmware version is %s, which is not supported. The minimum supported BMC firmware version is %s.

Severity: Emergency

Explanation: The current BMC firmware version is not supported by this EOS image.

Recommended Action: Please upgrade BMC firmware.

CARD_BAD_INPUT_VOLTAGE: %s supply voltage is incorrect (voltage is %s)

Severity: Error

Explanation: Software detected that the card has a power supply problem

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_EJECTOR_CLOSED: Card %s's ejector handle is now closed

Severity: Warning

Explanation: An ejector handle is closed on a fabric card. The ejector handle is used to detect card removal and remove the fabric card from the system without dropping packets. If the ejector handle is not properly closed, software will be unable to detect that a card is about to be removed and will be unable to perform a graceful shutdown.

Recommended Action: No action is required – this message is for information only.

CARD_EJECTOR_OPEN_AFTER_INSERTION: %s's ejector handle was open after insertion. This will prevent a clean shutdown of the card if it is removed, and packets may be dropped.

Severity: Warning

Explanation: An open fabric card ejector handle was detected. The ejector handle is used to detect card removal and remove the fabric card from the system without dropping packets. If the ejector handle is not properly closed, software will be unable to detect that a card is about to be removed and will be unable to perform a graceful shutdown.

Recommended Action: Make sure the ejector handle is properly closed.

CARD_EJECTOR_OPEN_KEEP_POWERED: Card %s's ejector handle is now open and the card is kept powered.

Severity: Warning

Explanation: An ejector handle on a fabric card is open. The card will remain powered.

Recommended Action: Make sure the ejector handle is properly closed

CARD_EJECTOR_OPEN_SHUTDOWN: Card %s's ejector handle is now open and the card is being shut down.

Severity: Warning

Explanation: An ejector handle on a fabric card is open. The card will be shut down to prevent packet loss upon fabric card removal.

Recommended Action: No action is required – this message is for information only.

CARD_FAIL_TO_POWER_ON: Card %s failed to power on in state %s, will retry in %d minutes. model: %s rev: %s serial number: %s

Severity: Error

Explanation: Software detected a problem while attempting to power on a card

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_LINECARD_SCD_RESET_ERROR: SCD device reset occurred on %s.

Severity: Warning

Explanation: Software detected a SCD device reset error on the named card. Check the card and its interfaces for errors. In case of errors, try re-seating the card.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_LOST_COMMUNICATION: Communication with %s has been lost. PCIE_FATAL_ERROR signal is asserted. model: %s rev: %s serial number: %s

Severity: Error

Explanation: Software detected a problem communicating to a PCIe switch in the system

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_LOST_POWER: %s unexpectedly lost power. POWER_GOOD signal deasserted. model: %s rev: %s serial number: %s

Severity: Error

Explanation: Software detected a problem with power on a card in the system

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_POWERED_OFF: Card %s has been powered off. model: %s rev: %s serial number: %s

Severity: Info

Explanation: Software has powered down the card

Recommended Action: No action is required – this message is for information only.

CARD_POWERED_ON: Card %s has been powered on. model: %s rev: %s serial number: %s

Severity: Info

Explanation: Software has powered up the card

Recommended Action: No action is required – this message is for information only.

CARD_POWER_CYCLE: Card %s was power cycled due to %s

Severity: Error

Explanation: A card power cycle is used to attempt recovery of an error.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_RESET: Card %s in state %s was reset due to multiple failed power on attempts.

Severity: Error

Explanation: A card was reset in an attempt to recover from an error. It may appear that the card was removed from the system momentarily.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_SATELLITE_BUS_ERROR: Satellite bus error occurred between switchcard and %s.

Severity: Warning

Explanation: Software detected a satellite bus error between the switchcard and the named card. Check the card and its interfaces for errors. In case of errors, try re-seating the card.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_TEMP_ALERT_ERROR: Temp Alert has been asserted on %s

Severity: Error

Explanation: Software detected a problem with temperature on a card in the system

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_UNSTABLE_SHUTDOWN: Card %s in state %s was shutdown due to frequent failed power on attempts.

Severity: Error

Explanation: A card was shutdown because it power cycled too many times, or its power-on sequence was continuously interrupted by frequent insertions and removals of the card. Please manually remove the card and insert a different card, put the card in a different slot, or use the CLI command "no power enable module <CARDNAME>" followed by "power enable module <CARDNAME>" to bypass the shutdown. If the card still does not power on, then it may be faulty.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CHASSIS_POWER_FAILURE: Chassis experienced a power failure

Severity: Error

Explanation: Chassis power good deasserted

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CHIP_BAD_VERSION: Cannot access %s (%s). Unexpected version: %d

Severity: Error

Explanation: The version of this chip is not what was expected. This probably means the read of the version register failed, and we cannot access the chip's registers.

Recommended Action: Remove and insert the card

CHL822X_UPGRADED: Successfully upgraded Chl822X device to version %d

Severity: Info

Explanation: Device was successfully upgraded.

Recommended Action: No action is required – this message is for information only.

CHL822X_UPGRADEFAILED: Failed to perform an upgrade of the Chl822X device

Severity: Emergency

Explanation: The system could not perform an upgrade of a Chl822X device. This may be due to a hardware or software failure.

Recommended Action: Rebooting the system may solve the problem. This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

DATAPLANE_INTEGRITY_ERROR_DETECTED: Packet integrity errors detected in chip: %s.

Severity: Error

Explanation: Internal testing has detected a data integrity error in a switching ASIC. Please contact support.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

DDR_BIST_FAILED: Switch ASIC %d DRAM %d failed DRAM BIST

Severity: Error

Explanation: The switch ASIC failed DRAM BIST.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

DDR_TUNE_FAILED: Switch ASIC %d, DRAM %d failed tuning %d

Severity: Error

Explanation: Switch ASIC failure in DRAM tuning. Please contact support.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

DDR_TUNE_THREAD_FAILED: Switch ASIC %d failed to spawn DRAM tuning thread %d.

Severity: Error

Explanation: Failure in spawning DRAM tuning thread. Please contact support.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

DISRUPTIVE_RESTART: Non-disruptive restart of %s forwarding agent failed. All hardware entries in %s table will be deleted and re-programmed in the hardware. Reason: %s.

Severity: Error

Explanation: Forwarding agent could not recover its hardware state during restart. This could result in hardware state being deleted and re-programmed in the hardware. This can result in traffic disruption.

Recommended Action: No action is required – this message is for information only.

DROP_COUNTER: Internal drop '%s' occurred on %s

Severity: Error

Explanation: The named hardware error counter has incremented by more than the allowed threshold in the allowed time. This is likely an indication that packet forwarding is being negatively impacted.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

DROP_COUNTER_ALERT: Persistent Internal Drop '%s': %s detected on %s

Severity: Error

Explanation: Persistent Internal Adverse Drop counters on fap.

Recommended Action: No action is required – this message is for information only.

ERROR_DETECTED: Software has detected %s '%s'.

Severity: Error

Explanation: Software has detected a problem.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EXCESSIVE_MULTIPLE_BIT_ERRORS: Excessive multibit memory errors detected in chip: %s.

Severity: Error

Explanation: An excessive number of multibit memory errors detected in a switching ASIC. Please contact support.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FANCONTROLLER_COMMUNICATION_ERROR: Communication error with the fan controller %s.

Severity: Error

Explanation: An error occurred while giving commands over SMBus to a fan controller.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FANSMBUSFAILURE: Error detected in the System Management Bus connection to fan slot %s

Severity: Error

Explanation: Software detected an error in the System Management Bus connection to the given fan. Fan detection has been disabled for this slot.

Recommended Action: Try replacing the affected fan again. If the problem persists, please contact your support representative for assistance.

FAN_OUT_OF_DATE: %s is an out-of-date fan.

Severity: Warning

Explanation: Software detected out-of-date fan in the system.

Recommended Action: Replace out-of-date fan with newer model to improve system cooling.

FAN_UNSUPPORTED_IN_SYSTEM: %s is not supported in this system.

Severity: Warning

Explanation: Software detected an unsupported fan in the system.

Recommended Action: Replace unsupported fan to improve system cooling.

FASTFAILOVER_IP_LOADSHARING_CONFIGURATION_INCOMPATIBLE: 'ip load-sharing prefer local' configuration is ignored because 'hardware next-hop fast-failover' is configured.

Severity: Error

Explanation: 'ip load-sharing prefer local' and 'hardware next-hop fast-failover' are not compatible with each other.

Recommended Action: Reconfigure your network to remove either of them.

FASTFAILOVER_IP_LOADSHARING_CONFIGURATION_NO_LONGER_INCOMPATIBLE: %s configuration now in effect because %s was removed.

Severity: Error

Explanation: 'ip load-sharing prefer local' and 'hardware next-hop fast-failover' are no longer conflicting.

Recommended Action: No action is required – this message is for information only.

FEATURE_PROFILE_CHANGED: Feature profile changed to "%s" for chip %s

Severity: Info

Explanation: Some agents will be restarted.

Recommended Action: No action is required – this message is for information only.

FIRMWARE_UPGRADEFAILED: Failed to perform an upgrade of %s from version %s to version %s. The system could not perform firmware upgrade. This may be due to a hardware or software failure. System functionality will be severely limited.

Severity: Error

Explanation: Failed to perform an upgrade of a device firmware

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FLOW_TABLE_FULL: No space available in the flow table

Severity: Error

Explanation: The switch is unable to program all flow entries due to insufficient hardware resources.

Recommended Action: To solve this issue, remove unused flow entries from the switch configuration in order to free up space in the flow table.

FPGA_CORRECTED_ERROR: CRC error was detected and corrected on an FPGA %s.

Severity: Warning

Explanation: Software detected an already corrected CRC error on the FPGA on the named card

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FPGA_CRC_ERROR: CRC error occurred on %s. %s

Severity: Error

Explanation: Software detected a CRC error on the FPGA on the named card

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FPGA_ERROR: CRC error occurred on an FPGA on %s. %s

Severity: Error

Explanation: Software detected a CRC error on the FPGA on the named card

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FPGA_ERROR_DEBUG: Software has read debugging information for the hardware error on FPGA %s on card %s. Partition: %s, frame address: %s, word address: %s, bit address: %s, FRAME_CRC_STAT0: %s, FRAME_CRC_STAT1: %s

Severity: Info

Explanation: Software has read debugging information for the hardware FPGA error

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FPGA_ERROR_POWER_CYCLED: CRC error occurred on an FPGA on %s. Card will be power cycled to recover.

Severity: Error

Explanation: Software detected a CRC error on the FPGA on the named card and power cycled the card to recover

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FPGA_ERROR_REPAIR: Repair of %s FPGA %s.

Severity: Error

Explanation: Software attempted to recover a CRC error on the FPGA

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FPGA_ERROR_SYSTEM: CRC error occurred on an FPGA in the system. %s

Severity: Error

Explanation: Software detected a CRC error in the system FPGA

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FPGA_HEARTBEAT_MISSED: A heartbeat was missed on an FPGA on %s.

Severity: Warning

Explanation: Software detected a missed heartbeat on the FPGA

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FPGA_LOGIC_ERROR: Logic error detected on an FPGA on %s. %s

Severity: Error

Explanation: Software detected a logic error on the FPGA

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FPGA_PERR_CORRECTABLE: A correctable parity error occurred in a switching FPGA (table: %s, address: %s)

Severity: Info

Explanation: A correctable parity error occurred in a switching FPGA. The affected entry will be repaired by software.

Recommended Action: No action is required – this message is for information only.

FPGA_PERR_CORRECTED: Corrected a parity error in a switching FPGA (table: %s, address: %s)

Severity: Info

Explanation: Software corrected a parity error that occurred in a switching FPGA. Normal traffic forwarding, if affected by this error, will resume.

Recommended Action: No action is required – this message is for information only.

FPGA_PROGRAMMER_ERROR: Fpga programming failed for fpga %s

Severity: Error

Explanation: Software detected a problem while configuring the given fpga.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FPGA_PROGRAMMER_IMAGE_ERROR: Fpga image %s does not exist, defaulting to %s

Severity: Error

Explanation: Software detected a problem while configuring the given fpga.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FPGA_UNPROGRAMMED: The FPGA %s is unprogrammed.

Severity: Emergency

Explanation: The given FPGA is unprogrammed and cannot be accessed, possibly due to an interrupted or failed attempt at upgrading the FPGA. Manual intervention may be able to fix the problem. System functionality will be severely limited until then.

Recommended Action: Please see Knowledge Base article #NN for instructions on how to manually program the FPGA.

FPGA_UNRECOGNIZED: The %s FPGA image installed is not recognized by EOS

Severity: Error

Explanation: Fpgas provide logic and hardware level performance to many Arista switches. The above chip is not currently recognized by the EOS operating system. If the above chip is a Stratix V with customer specific functionality of the 7124FX family, please contact your internal FPGA team. Otherwise, contact Arista customer support.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FPGA_UPGRADED: Successfully upgraded the FPGA %s to version %d.%d

Severity: Info

Explanation: The above FPGA was successfully upgraded.

Recommended Action: No action is required – this message is for information only.

FPGA_UPGRADEFAILED: Failed to perform an upgrade of the FPGA %s from version %d.%d to version %d.%d

Severity: Emergency

Explanation: The system could not perform an upgrade of an FPGA. This may be due to a hardware or software failure. System functionality will be severely limited.

Recommended Action: Downgrading back to an earlier version of EOS may restore system functionality. This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FPGA_UPGRADEINTERRUPTED: A previous attempt to upgrade the FPGA %s was interrupted.

Severity: Info

Explanation: The system detected that a previous attempt to upgrade the given FPGA was interrupted before the upgrade completed. This could be because the switch lost power while upgrading the FPGA.

Recommended Action: No action is required – this message is for information only.

FPGA_UPGRADEMISSINGREVISION: A previous attempt to upgrade the FPGA %s could not proceed because the system was given a missing or corrupt FPGA image file: %s

Severity: Error

Explanation: The system detected that the FPGA image file supplied to it was either missing or corrupt. Hence it could not read the revision number for the supplied image.

Recommended Action: Please ensure that a valid image file is supplied for the upgrade.

FPGA_VALID: The %s FPGA is currently being read by EOS

Severity: Notice

Explanation: Fpgas provide logic to and hardware level performance to many Arista switches. The above chip has been programmed successfully and is recognized by the EOS operating system

Recommended Action: No action is required – this message is for information only.

FW_LOAD_FAILED: Failed to load firmware: %s

Severity: Emergency

Explanation: An error occurred while attempting to load firmware into the specified device(s). The device(s) are non-operational until this problem is fixed.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FW_LOAD_SLOW: Programming firmware is unexpectedly slow: %s

Severity: Info

Explanation: Firmware was loaded into the specified device successfully, but the process took longer than expected. The device(s) is operating normally.

Recommended Action: No action is required – this message is for information only.

FW_UPDATE_DONE: Finished updating firmware: %s

Severity: Info

Explanation: The firmware for the specified devices has been successfully updated.

Recommended Action: No action is required – this message is for information only.

FW_UPDATE_START: Updating firmware: %s

Severity: Info

Explanation: The firmware for the specified devices is being updated. This may take a few minutes, and may delay system startup.

Recommended Action: No action is required – this message is for information only.

INTERRUPT_STORM_CLEARED: Interrupt storm resolved on %s

Severity: Info

Explanation: Interrupt rate is back to normal

Recommended Action: No action is required – this message is for information only.

INTERRUPT_STORM_DETECTED: Interrupt storm detected on %s

Severity: Error

Explanation: Excessive interrupt rate detected on forwarding chip

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

IPv4_OPTIMIZED_ROUTES_VRF_SCALE_SUPPORTED: Hardware supports the current VRF scale with the current IPv4 route optimization configuration

Severity: Warning

Explanation: IPv4 routing will work correctly for all the VRFs.

Recommended Action: No action is required – this message is for information only.

IPv4_OPTIMIZED_ROUTES_VRF_SCALE_UNSUPPORTED: Hardware supports only %d non-default VRFs with the current IPv4 route optimization configuration

Severity: Warning

Explanation: IPv4 routing may not work correctly for some of the VRFs.

Recommended Action: Please reduce the number of VRFs in the system.

IPv4_OPTIMIZED_ROUTES_VRF_SELECTION_FALLBACK_VRF_CONFLICT: IPv4 route optimization configuration conflicts with VRF selection policy configuration for fallback VRF %s

Severity: Warning

Explanation: IPv4 packets matching optimized routes in this VRF that are not of /21 prefix-length may not get forwarded correctly

Recommended Action: Please disable IPv4 route optimization or enable internet profile or enable route optimization for /21 prefix-length for the VRF

IPv4_OPTIMIZED_ROUTES_VRF_SELECTION_FALLBACK_VRF_NO_CONFLICT: IPv4 route optimization configuration no longer conflicts with VRF selection policy configuration for fallback VRF %s

Severity: Warning

Explanation: IPv4 packets routed in this VRF will get forwarded correctly

Recommended Action: No action is required – this message is for information only.

IPv4_OPTIMIZED_ROUTES_VRF_SELECTION_VRF_WITH_FALLBACK_CONFLICT: IPv4 route optimization configuration conflicts with VRF selection policy configuration for VRF %s with fallback VRF

Severity: Warning

Explanation: IPv4 packets matching optimized routes in this VRF that are not of /32 prefix-length may not get forwarded correctly

Recommended Action: Please disable IPv4 route optimization or enable optimization for /32 prefix length for the VRF selection policy to work as expected

IPv4_OPTIMIZED_ROUTES_VRF_SELECTION_VRF_WITH_FALLBACK_NO_CONFLICT: IPv4 route optimization configuration no longer conflicts with VRF selection policy configuration for VRF %s with fallback VRF

Severity: Warning

Explanation: IPv4 packets routed in this VRF will get forwarded correctly

Recommended Action: No action is required – this message is for information only.

IPv4_ROUTES_NOT_OPTIMIZED: Some IPv4 routes of VRF %s with prefix lengths configured to be optimized could not be optimized.

Severity: Warning

Explanation: Some of the IPv4 routes which could not be optimized are now installed in the LPM table.

Recommended Action: No action is required – this message is for information only.

IPv4_ROUTES_OPTIMIZED: All IPv4 routes of VRF %s with prefix lengths configured to be optimized have been optimized.

Severity: Warning

Explanation: The LPM table contains none of the IPv4 routes that could have been optimized.

Recommended Action: No action is required – this message is for information only.

IPV6_NEXTHOP_LINKLOCAL_UNRESOLVABLE: IPv6 link local next hop %s cannot be resolved without an interface

Severity: Error

Explanation: A configured nexthop entry contains an IPv6 link local address without an interface. The entry is ignored because it cannot be resolved.

Recommended Action: Update or remove the nexthop entry with the link local address

IPV6_OPTIMIZED_ROUTES_MPLS_VRF_TERMINATION_CONFLICT: IPv6 route optimization configuration(s) conflict with VRF label termination configuration(s)

Severity: Warning

Explanation: Routing using optimized IPv6 routes after VRF label termination may not work as expected.

Recommended Action: Please disable IPv6 route optimization for prefix-length /128 and disable IPv6 host routes optimization using 'no platform sand ipv6 host-routeexact-match' command

IPV6_OPTIMIZED_ROUTES_MPLS_VRF_TERMINATION_NO_CONFLICT: IPv6 route optimization configuration(s) no longer conflict with VRF label termination configuration(s)

Severity: Warning

Explanation: IPv6 routing after VRF label termination will work as expected.

Recommended Action: No action is required – this message is for information only.

IPV6_ROUTES_NOT_OPTIMIZED: Some IPv6 routes of VRF %s with prefix lengths configured to be optimized could not be optimized.

Severity: Warning

Explanation: Some of the IPv6 routes which could not be optimized are now installed in the LPM table.

Recommended Action: No action is required – this message is for information only.

IPV6_ROUTES_OPTIMIZED: All IPv6 routes of VRF %s with prefix lengths configured to be optimized have been optimized.

Severity: Warning

Explanation: The LPM table contains none of the IPv6 routes that could have been optimized.

Recommended Action: No action is required – this message is for information only.

IP_ROUTE_OPTIMIZATION_CONFIG_IGNORED: %s %s route optimization configuration %s is invalid

Severity: Warning

Explanation: All route optimization configuration(s) for the given IP version are being ignored. The routes will not be optimized and will be installed in the LPM table.

Recommended Action: Fix the unsupported optimization configuration(s) and restart the platform L3 agent to fix the issue.

KERNEL_PANIC_EEPROM_RW_FAIL: Failed to %s kernel panic eeprom

Severity: Info

Explanation: Software encountered failure in eeprom read/write operation

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

LICENSE_ERROR: Hardware license verification failed (failure code %d), dataplane encryption is disabled

Severity: Error

Explanation: Hardware license verification has failed. In this state dataplane encryption will not work.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

LICENSE_SUCCESS: Hardware license successfully verified, dataplane encryption is enabled

Severity: Info

Explanation: Hardware license has been successfully verified and dataplane encryption is enabled.

Recommended Action: No action is required – this message is for information only.

LICENSE_TIMEOUT: Hardware license verification timed out, dataplane encryption is disabled

Severity: Error

Explanation: Hardware license verification has failed. In this state dataplane encryption will not work.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

MUX_INIT_ERROR: Card %s mux failed to initialize

Severity: Error

Explanation: Software was unable to configure the board's smbus mux

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

NOT_PRESENT: Previously accessible hardware %s is no longer accessible.

Severity: Error

Explanation: Hardware which was previously accessible is no longer. Possibly the linecard was removed, or there is a PCIe problem.

Recommended Action: Remove and insert the card

PARITY_ERROR_CORRECTED_WITH_RESET: Parity error %s in memory %s on %s corrected by full chip reset

Severity: Warning

Explanation: Software re-initialized the blocks of the switching ASIC, causing minor traffic loss.

Recommended Action: No action is required – this message is for information only.

PCIE_COMM_ERROR: Multiple smbus access to Pcie switch %s have failed

Severity: Error

Explanation: Software detected a problem communicating to a pcie switch in the system

Recommended Action: If this problem persists, please contact your support representative for assistance.

PCIE_FATAL_ERROR: Uncorrectable Fatal PCIe Error detected. PCI device name: %s, address: %s, error count: %d.

Severity: Error

Explanation: The PCIe fabric is no longer reliable.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PCIE_IO_PAGE_FAULT: I/O page fault detected. PCI device name: %s, address: %s, I/O virtual address: %s, flags: %s.

Severity: Warning

Explanation: A PCIe device attempted a memory transfer with an invalid address.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PCIE_NONFATAL_ERROR: Uncorrectable Non-Fatal PCIe Error detected. PCI device name: %s, address: %s, error count: %d.

Severity: Warning

Explanation: The PCIe fabric integrity is unaffected.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PCIE_SUPE_INIT_COMM_ERROR: Smbus access to the supervisors Pcie switch %s has failed

Severity: Error

Explanation: Software detected a problem communicating to a pcie switch in the system, this may cause linecard or fabric cards to fail to power on.

Recommended Action: If this problem persists, please contact your support representative for assistance.

PCIE_SWITCH_EGRESS_CREDIT_TIMEOUT: Egress credit timeout detected on bridge %s, port %d

Severity: Info

Explanation: Possible hardware reset.

Recommended Action: No action is required – this message is for information only.

PCIE_SWITCH_NO_UPSTREAM: Unable to find upstream device for %s

Severity: Error

Explanation: Possible hardware removal.

Recommended Action: No action required – this message is for information only

PERR_CORRECTABLE: %s

Severity: Info

Explanation: A correctable parity error occurred in a switching ASIC. The affected entry will be repaired by software.

Recommended Action: No action is required – this message is for information only.

PERR_CORRECTED: %s

Severity: Info

Explanation: Software corrected a parity error that occurred in a switching ASIC. Normal traffic forwarding, if affected by this error, will resume.

Recommended Action: No action is required – this message is for information only.

PERR_FATAL: %s

Severity: Warning

Explanation: A fatal parity error occurred in a switching ASIC. The forwarding agent restarted in order to recover from this error.

Recommended Action: No action is required – this message is for information only.

PHY_PATGEN_ENABLED: A pattern generator for PHY diagnostics is enabled on %s.

Severity: Warning

Explanation: Using PHY pattern generation may lead to interface flaps after supervisor switchover.

Recommended Action: Disable pattern generation and toggle interface state by doing shut/no shut on the relevant interfaces.

PLXEEPROM_UPGRADED: Successfully upgraded PLX EEPROM to version in EOS image

Severity: Info

Explanation: Device was successfully upgraded.

Recommended Action: No action is required – this message is for information only.

PORT_POWER_FAILURE: %s %s have no power due to %s.

Severity: Error

Explanation: The port has lost power either because of a hardware failure or a bad transceiver. If there is a transceiver in the port, try removing it and power cycling the module.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PORT_POWER_OK: %s %s on %s have regained power.

Severity: Error

Explanation: The specified ports previously had lost power but are now ok.

Recommended Action: No action is required – this message is for information only.

POWERCONTROLLER_BAD_DMON_VALUE: The power controller on %s detected a bad digital monitor value of 0 on rail %s (Rail%u).

Severity: Error

Explanation: Software detected that the power controller is not supplying the correct voltage on one or more of its rails.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWERCONTROLLER_BAD_OUTPUT_VOLTAGE: The power controller on %s detected a bad output voltage of %f on rail %s (Rail%u).

Severity: Error

Explanation: Software detected that the power controller is not supplying the correct voltage on one or more of its rails.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWERCONTROLLER_COMMUNICATION_ERROR: Communication error with the power controller on %s (%s).

Severity: Error

Explanation: An error occurred while giving commands over SMBus to a power controller.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWERCONTROLLER_FAULT: The %s power controller reports a status that indicates a fault (%s)

Severity: Error

Explanation: Software detected that there is a power controller fault. By itself this message does not indicate a problem, but will help diagnose a more serious power controller issue.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWERCONTROLLER_OUTPUT_VOLTAGE_RECOVERED: The %s power controller recovered from bad output voltage.

Severity: Error

Explanation: Software detected that the power controller has recovered from not supplying the correct voltage on one or more of its rails.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWERCONTROLLER_UPDATED: The %s power controller has been updated. %s will be power cycled.

Severity: Warning

Explanation: Software updated a power controller and will power cycle the card to activate the update.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_CYCLE_CARD_DUE_TO_BAD_EVENT: %s is being power-cycled because %s event happened.

Severity: Error

Explanation: Bad events may cause traffic loss and poor performance.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_OFF_CARD_DUE_TO_BAD_EVENT: %s is being powered off because %s event happened.

Severity: Error

Explanation: Bad events may cause traffic loss and poor performance.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_OFF_FAILED: Software failed to power off the system. Power cycle the system manually to recover.

Severity: Error

Explanation: Software tried to power off the system but was unable because of a communication error with the system's CPLD.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_DATA_INVALID: Power supply %d returned unexpected status information multiple times.

Severity: Warning

Explanation: Status information from the power supply is currently unreliable. The power supply might no longer provide power to the system.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_DATA_OK: Power supply %d is returning expected status information.

Severity: Warning

Explanation: Status information from the power supply is reliable again.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_FAILED: Power supply %d has failed (%s).

Severity: Error

Explanation: The power supply has failed and is no longer providing power to the system.

Recommended Action: Replace the power supply.

POWER_SUPPLY_FAN_FAILURE_WARNING: Power supply %d fan failure predicted.

Severity: Warning

Explanation: The power supply has detected that one of its fans is likely to fail. The power supply will shut down once the fan fails.

Recommended Action: Replace the power supply when possible. Make sure that a redundant power supply is inserted and operating properly.

POWER_SUPPLY_INPUT_OVERCURRENT_WARNING: Power supply %d input overcurrent detected (latest reading %dA).

Severity: Warning

Explanation: The power supply detected a lower input voltage than expected. If the problem persists the power supply will shut down.

Recommended Action: Check the input power to the power supply.

POWER_SUPPLY_INPUT_OVERPOWER_WARNING: Power supply %d input overpower detected (latest reading %dW).

Severity: Warning

Explanation: The power supply has flagged an output overpower warning. If the problem persists the power supply will shut down.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_INPUT_OVERVOLTAGE_WARNING: Power supply %d input overvoltage detected (latest reading %dV).

Severity: Warning

Explanation: The power supply has flagged an input overvoltage warning. If the problem persists the power supply will shut down.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_INPUT_UNDERVOLTAGE_WARNING: Power supply %d input undervoltage detected (latest reading %dV).

Severity: Warning

Explanation: The power supply has flagged an input undervoltage warning. If the problem persists the power supply will shut down.

Recommended Action: Check the input power to the power supply.

POWER_SUPPLY_INPUT_VOLTAGE_MISMATCH: Power supply %d has higher input voltage than other power supplies in the system.

Severity: Warning

Explanation: A lower input voltage will be used to calculate the capacity of this power supply.

Recommended Action: Check input voltage on other power supplies in the system, and match input voltage to potentially increase the total power system can use.

POWER_SUPPLY_OK: Power supply %d has recovered.

Severity: Error

Explanation: The power supply had previously failed but is now ok.

Recommended Action: While the power supply has recovered for now, it should still be replaced soon as possible.

POWER_SUPPLY_OUTPUT_CURRENT_FAILURE: Power supply %d has failed because output current (%dA) dropped below the minimum allowed value (%dA).

Severity: Error

Explanation: The power supply has failed and might no longer provide power to the system.

Recommended Action: Replace the power supply.

POWER_SUPPLY_OUTPUT_CURRENT_OK: Power supply %d has recovered from being declared as failed because of the output current (%dA) being below the minimum allowed value (%dA).

Severity: Error

Explanation: The power supply had previously failed but is now ok.

Recommended Action: While the power supply has recovered for now, it should still be replaced as soon as possible.

POWER_SUPPLY_OUTPUT_OVERCURRENT_WARNING: Power supply %d output overcurrent detected (latest reading %dA).

Severity: Warning

Explanation: The power supply detected that it was providing a larger output current than expected. This can happen if the system is drawing more power than the power supply can provide. If the problem persists the power supply will shut down.

Recommended Action: Check that the power supply can provide enough power to meet the system's requirements. If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_OUTPUT_OVERPOWER_WARNING: Power supply %d output overpower detected (latest reading %dW).

Severity: Warning

Explanation: The power supply has flagged an output overpower warning. If the problem persists the power supply will shut down.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_OUTPUT_OVERVOLTAGE_WARNING: Power supply %d output overvoltage detected (latest reading %dV).

Severity: Warning

Explanation: The power supply has flagged an output overvoltage warning. If the problem persists the power supply will shut down.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_OUTPUT_UNDERCURRENT_FAILURE: Power supply %d has failed because the reported output current (%sA) is outside the valid range. Overall system load is %sA.

Severity: Error

Explanation: The power supply has failed and is no longer providing power to the system.

Recommended Action: Replace the power supply.

POWER_SUPPLY_OUTPUT_UNDERVOLTAGE_WARNING: Power supply %d output undervoltage detected (latest reading %dV).

Severity: Warning

Explanation: The power supply has flagged an output undervoltage warning. If the problem persists the power supply will shut down.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_SUPPLY_OVERHEAT_WARNING: Power supply %d is overheating (%s)

Severity: Warning

Explanation: The power supply is overheating. If the problem persists the power supply will shut down.

Recommended Action: Check that the power supply's air intake and outlet vents are not blocked. Check that the switch is operating within the recommended ambient temperature range. If the problem persists, contact your support representative. Otherwise, no action is required.

REG_ACCESS_FAILED: Cannot read %s (%s) registers.

Severity: Error

Explanation: Failed to read a chip's registers. This means either the chip is faulty, or PciE access has failed.

Recommended Action: Reset the linecard

REPEATER_COMM_ERROR: Smbus access to repeater %s-%s has failed

Severity: Error

Explanation: Software detected a problem communicating to a repeater in the system

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

RESTART_AGENT_DUE_TO_BAD_EVENT: %s agent is being restarted because %s event happened.

Severity: Error

Explanation: Bad events may cause traffic loss and poor performance.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SCHAN_ACCEL_ATTACH_FAILED: Failed to attach coprocessor %s (%d) to command ring %s.

Severity: Warning

Explanation: An error occurred while trying to attach the coprocessor.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SMBUS_ERROR: Card %s mux poll failed %d times before reappearing

Severity: Error

Explanation: Software detected a problem communicating to a smbus device

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

STANDBYCPLD_COMMUNICATION_ERROR: Communication error with the standby domain CPLD %s.

Severity: Error

Explanation: An error occurred while giving commands over SMBus to a standby domain CPLD.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SUPERVISOR_IDENTIFICATION_FAILED: Failed to identify the slot id of the supervisor

Severity: Emergency

Explanation: Hardware returned inconsistent results when determining the slot id of the supervisor from hardware. System functionality may be severely limited.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SUPERVISOR_PCIE_LINK_ERROR: Pcie switch %s upstream link %s has failed

Severity: Emergency

Explanation: Software detected a link failure between the CPU and one of its two Pcie switches, this will prevent the system operating correctly

Recommended Action: Reboot the switch to try to recover the failure and contact your support representative for assistance.

SUPERVISOR_PCIE_SWITCHOVER: %s is being switched over to the standby supervisor

Severity: Info

Explanation: Software detected a change in the active supervisor, hardware control is being transferred to the this supervisor

Recommended Action: No action required.

SUPERVISOR_PCIE_SWITCHOVER_FAILURE: Unable to switch %s over to the standby supervisor

Severity: Error

Explanation: Software detected a change in the active supervisor, but was unable to switch this card over to the standby supervisor

Recommended Action: If this problem persists, please contact your support representative for assistance.

SUPERVISOR_PCIE_SWITCH_BUS_ERROR: Unable to switch %s over to the standby supervisor

Severity: Error

Explanation: Possible hardware removal.

Recommended Action: No action required – this message if for information only

SUPERVISOR_PCIE_SWITCH_CONFIG_ERROR: The Pcie switch %s port %s is misconfigured, one or more cards will fail to operate

Severity: Emergency

Explanation: Software detected a configuration error in the Pcie switch, this will prevent the system operating correctly

Recommended Action: Reboot the switch to try to recover the failure and contact your support representative for assistance.

SYSTEM_ABOUT_IDENTIFICATION_FAILED: Failed to identify the about version on this system

Severity: Warning

Explanation: The about version could not be identified on this system. If the about version is not compatible with the boot image, the system may not behave reliably.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SYSTEM_ABOUT_INCOMPATIBLE: About version %s found on this system, version number >= %s is required

Severity: Emergency

Explanation: The About version on this system is not compatible with the current boot image. The system will be unusable.

Recommended Action: Please upgrade the About version or downgrade the boot image configured on this system.

SYSTEM_ABOUT_UPDATE_FAILED: The BIOS upgrade failed. Reason: %s

Severity: Error

Explanation: An error occurred when upgrading the BIOS. The log message may contain a reason why the upgrade failed.

Recommended Action: Determine why the BIOS failed to install. If you are unsure how to proceed, contact your support representative.

SYSTEM_ABOUT_UPDATE_SUCCEEDED: The BIOS upgrade succeeded.

Severity: Info

Explanation: The BIOS has been successfully upgraded.

Recommended Action: No action is required – this message is for information only.

SYSTEM_IDENTIFICATION_FAILED: Failed to identify this system

Severity: Emergency

Explanation: A fatal error occurred while attempting to identify this system. This may be a hardware or software failure. Upgrading software to a newer release may be required. System functionality will be severely limited.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SYSTEM_IDENTIFICATION_FALLBACK: Unable to identify system details. Falling back to system description programmed into hardware.

Severity: Info

Explanation: The detailed hardware description is unknown in this software version. The description programmed into the hardware is being used.

Recommended Action: No action is required – this message is for information only.

TIMESTAMP_COUNTER_RESET: %s's timestamp counter has been reset to %d ns.

Severity: Info

Explanation: The hardware timestamp counter's time was reset

Recommended Action: No action required.

TIMESYNC_ERROR: %s has experienced a hardware error (%s) with internal time synchronization

Severity: Error

Explanation: A hardware error was encountered while performing time synchronization

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

UNKNOWN_MAC_DROP_FEATURE_UNSUPPORTED: Cannot program unknown MAC drop for traffic class %d on %s.

Severity: Error

Explanation: This feature is not supported on this EOS version.

Recommended Action: Remove the command 'platform trident unknown-mac-drop priority <class>' from the switch configuration.

VERIFY_AGENT_FAILED: %s Agent will restart.

Severity: Error

Explanation: Verification of forwarding agent failed.

Recommended Action: No action is required – this message is for information only.

VERIFY_AGENT_RETRY_NEEDED: %s

Severity: Info

Explanation: Verification of forwarding agent did not complete.

Recommended Action: No action is required – this message is for information only.

VLAN_RESOURCE_FULL: Insufficient hardware resources to configure allowed VLAN %d for Tap interface %d

Severity: Error

Explanation: The maximum number of internal table entries allocated for ingress VLAN membership on Tap interfaces is 4096 per forwarding engine.

Recommended Action: Configure fewer ingress allowed VLANs.

VRMFAILURE: Fatal hardware error of VRM %s

Severity: Emergency

Explanation: The given VRM can no longer be accessed. Functionality of the containing fru may be severely limited.

Recommended Action: This is a critical condition. Contact the Arista TAC (technical support) group and send them this message. This system may be unusable until this issue is resolved.

VRMFATALERROR: Fatal power error detected by VRM %s

Severity: Emergency

Explanation: The VRM detected a fatal power error. Functionality of the containing fru will be severely limited.

Recommended Action: This is a critical condition. Contact the Arista TAC (technical support) group and send them this message. This system may be unusable until this issue is resolved.

WATCHDOG_ERROR: Reboot due to system watchdog

Severity: Warning

Explanation: The system rebooted due to a watchdog timeout.

Recommended Action: Harmless if seen infrequently, but may indicate a serious hardware or software problem if seen often.

2.54 HEALTH Messages

ACCEPTABLE: Component %s (%s metric) on %s has experienced an event (reported by %s). %s

Severity: Notice

Explanation: An entity has experienced a health event of ACCEPTABLE severity.

Recommended Action: No action is required – this message is for information only.

ERROR: Component %s (%s metric) on %s has experienced an event (reported by %s). %s

Severity: Error

Explanation: An entity has experienced a health event of ERROR severity.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FATAL: Component %s (%s metric) on %s has experienced an event (reported by %s). %s

Severity: Emergency

Explanation: An entity has experienced a health event of FATAL severity.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

MONITOR_INVALID_IPV6_TUNNEL_ADDRESS: IPv6 tunnel address configuration is being ignored due to multiple IPv6 addresses on %s.

Severity: Error

Explanation: Configuration of the IPv6 tunnel address is valid when there is only 1 IPv6 address on the tunnel source interface

Recommended Action: Configure a single IPv6 address on the tunnel source interface

OK: Component %s (%s metric) on %s is now OK (reported by %s).

Severity: Info

Explanation: An entity has recovered from a previous health event.

Recommended Action: No action is required – this message is for information only.

SCORE_CHANGE: Device health score of %s changed (%s) and is now %d.

Severity: Info

Explanation: Device health score of an entity has changed

Recommended Action: No action is required – this message is for information only.

WARNING: Component %s (%s metric) on %s has experienced an event (reported by %s). %s

Severity: Warning

Explanation: An entity has experienced a health event of WARNING severity.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.55 IGMP Messages

INTFID_CONFLICT: Interface %a is being used both implicitly and explicitly for Igmp groups. Implicitly by an EOS Agent, eg. Vxlan and its also configured explicitly Please choose different interface names for them.

Severity: Warning

Explanation: Igmp interface names are in conflict with Igmp Agent and another Agent, eg. Vxlan Agent

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

MESSAGE_INVALID_SOURCE: Received invalid source %s for group %s.

Severity: Error

Explanation: Source sent by host is not a unicast address.

Recommended Action: Capture the packet using tcpdump and contact support.

VRF_UNSUPPORTED: Interface %a has a vrf %a configured

Severity: Warning

Explanation: Enabling IGMP on a VRF enabled interface is not supported.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.56 IGMP Snooping Messages

GROUP_LIMIT_EXCEEDED: IGMP group limit of %d groups exceeded in VLAN %d

Severity: Warning

Explanation: The switch detected that the number of IGMP groups joined by hosts in the specified VLAN exceeds the configured number allowed for this VLAN.

Recommended Action: Increase the max-groups limit for the VLAN or configure the hosts in the VLAN to join fewer groups.

GROUP_LIMIT_NO_LONGER_EXCEEDED: IGMP group limit of %d groups no longer exceeded in VLAN %d

Severity: Warning

Explanation: The switch detected that the number of IGMP groups joined by hosts in the specified VLAN no longer exceeds the VLAN's configured max-groups limit.

Recommended Action: No action is required – this message is for information only.

GROUP_LIMIT_NO_LONGER_EXCEEDED_NO_LIMIT: IGMP group limit no longer exceeded in VLAN %d

Severity: Warning

Explanation: The switch detected that the number of IGMP groups joined by hosts in the specified VLAN no longer exceeds the VLAN's previously configured max-groups limit. Currently no limit is configured.

Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: Hardware resources are insufficient to program all IGMP Snooping groups%s.

Severity: Error

Explanation: The switch is unable to program all IGMP Snooping groups because the IGMP Snooping groups exceed the available hardware resources.

Recommended Action: To solve this issue, reconfigure the network to reduce the number of IGMP Snooping groups. When the number of groups reduces, the switch automatically programs any unprogrammed groups in hardware.

HW_RESOURCE_NORMAL: All IPv4 multicast routes are programmed in hardware.

Severity: Error

Explanation: The switch was able to program all the IGMP Snooping groups in hardware and normal hardware routing has resumed.

Recommended Action: No action is required – this message is for information only.

NOT_EXPECT_ROUTER: Router detected in VLAN %d

Severity: Warning

Explanation: The switch report-flooding feature is designed for pure L2 environment

Recommended Action: Please correct network configuration

NO_IGMP_QUERIER: No IGMP querier detected in VLAN %d. IGMP report received from %d on %d for %d

Severity: Info

Explanation: The switch did not detect an IGMP querier running in the specified VLAN. This will cause multicast traffic to be flooded to all members of the VLAN.

Recommended Action: Configure an IGMP querier for the specified VLAN.

QUERY_VERSION_CONFIGURED_DISCREPANCY: IGMP version %d query heard on vlan %d by a querier configured to version %d.

Severity: Warning

Explanation: The switch detected an IGMP query message of a different version than the version that is currently configured.

Recommended Action: Configure all queriers on the network to use the same querier version

2.57 INCOMPATIBLE Messages

CARD_INSERTED: %s (%s_%s) is not compatible with the following chips in the system:%s.

Severity: Error

Explanation: A system with incompatible chips is unsupported and may lead to agent restarts. To recover, remove the incompatible chips from the system.

Recommended Action: No action is required – this message is for information only.

2.58 INTF Messages

DUPLICATE_ADDRESS_WITH_HOST: IP address %a configured on interface %s is in use by a host with MAC address %s on interface %s in VRF %s

Severity: Warning

Explanation: An IP address configured on the switch is already in use by a host found in the ARP table.

Recommended Action: Please check the interface IP address configuration.

L2_SUBINTERFACE_ACTIVE: %s

Severity: Info

Explanation: Inactive subinterface (%s) has now been programmed in hardware

Recommended Action: No action is required – this message is for information only.

L2_SUBINTERFACE_INACTIVE: Parent interface (%s) of the subinterface (%s) has more than one L2 subinterface with the forwarding VLAN (%d)

Severity: Error

Explanation: Subinterface is not programmed in hardware

Recommended Action: Subinterface shows up as connected and up but is not programmed in hardware. Programming of the subinterface in hardware will be done when it is the only subinterface on its parent with that forwarding VLAN

MAX_MTU_EXCEEDED: Configured mtu (%d) exceeds the maximum mtu (%d) for interface %s

Severity: Warning

Explanation: This interface was configured with an mtu value that exceeds the maximum mtu supported for this type of interface

Recommended Action: Change the interface configuration to be consistent with the maximum supported mtu for this interface type.

RELOAD_HITLESS_CONFIG_TIMEOUT: Time out waiting for config to be applied on all interfaces.

Severity: Warning

Explanation: This may result in some traffic disruption during reload hitless.

Recommended Action: No action is required – this message is for information only.

SNMP_UNSUPPORTED: Interface %s is not supported by the Snmp agent

Severity: Error

Explanation: The software component that provides this type of interface does not properly support the Snmp agent, so counters and other information for this interface will not be available via SNMP.

Recommended Action: Contact your support representative.

2.59 IP6 Messages

BOTH_NONVIRTUAL_VIRTUAL_CONFIGURED: Both IPv6 non-virtual and virtual addresses configured on interface %s. Using virtual addresses to configure interface, and ignoring the non-virtual addresses.

Severity: Warning

Explanation: Mixing virtual and non-virtual addresses on an interface is not supported.

Recommended Action: No action is required – this message is for information only.

2.60 IP6ROUTING Messages

DAD_FAILED: IPv6 DAD failed on interface %s for address %s

Severity: Warning

Explanation: IPv6 Duplicate Address Detection has failed.

Recommended Action: No action is required – this message is for information only.

ECMP_ROUTE_MAX_PATHS_EXCEEDED: ECMP route %a has exceeded number of allowed paths.

Severity: Info

Explanation: An ecmp route has more paths than allowed by the Resilient Ecmp Feature. The extra paths will not be programmed in hardware.

Recommended Action: No action is required – this message is for information only.

ECMP_ROUTE_PATH_NOT_PROGRAMMED: Path %a not programmed for ECMP route %a

Severity: Info

Explanation: Path exceeds number of allowed paths in a resilient ecmp route. Path will not be programmed in hardware.

Recommended Action: No action is required – this message is for information only.

EGRESS_RACL_OVERRIDE_URPF: IPv6 Unicast RPF does not work and is disabled since egress IPv6 router ACL is conflicting with IPv6 Unicast RPF resource.

Severity: Warning

Explanation: IPv6 Unicast RPF does not work with egress IPv6 router ACL in this TCAM profile. Switch to a TCAM profile where forwarding-type key-field is added to egress IPv6 router ACL feature to enable IPv6 Unicast RPF along with egress IPv6 router ACL.

Recommended Action: No action is required – this message is for information only.

EGRESS_RACL_SHARING_FEC_SHARING_OVERRIDE_URPF: IPv6 Unicast RPF does not work and is disabled since egress router ACL sharing and IPv4 - IPv6 FEC sharing are enabled

Severity: Warning

Explanation: IPv6 Unicast RPF does not work when egress router ACL sharing and IPv4-IPv6 FEC sharing are enabled. Switch to egress router ACL unshared mode or dedicated IPv4 - IPv6 FEC mode for unicast RPF to be enabled again.

Recommended Action: No action is required – this message is for information only.

EGRESS_RACL_SHARING_OVERRIDE_URPF: IPv6 Unicast RPF does not work and is disabled since egress router ACL sharing is enabled

Severity: Warning

Explanation: IPv6 Unicast RPF does not work when egress router ACL sharing is enabled. Switch to egress router ACL unshared mode for unicast RPF to be enabled again

Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: Hardware resources are insufficient to program all routes

Severity: Error

Explanation: The switch is unable to program all routes due to insufficient hardware resources. When the switch is unable to program routes due to insufficient hardware resources, it may drop certain packets in order to avoid potential routing loops in the network. The switch encountered this issue because the routing table exceeds the available hardware resources.

Recommended Action: To solve this issue, reconfigure the network to reduce the size of the routing table. When the routing table size reduces, the switch automatically programs any unprogrammed routes in hardware.

HW_RESOURCE_NORMAL: All routes are programmed in hardware.

Severity: Error

Explanation: The switch was able to program all the routes in the routing table, in hardware and normal hardware routing has resumed.

Recommended Action: No action is required – this message is for information only.

MAX_PATHS_EXCEEDED: Number of paths (%d) for adj %d higher than max supported value (%d)

Severity: Error

Explanation: The system is trying to allocate an ecmp route with more paths than the maximum allowed by the hardware. The route cannot be allocated.

Recommended Action: No action is required – this message is for information only.

NO_EGRESS_RACL_OVERRIDE_URPF: IPv6 Unicast RPF is enabled as the egress router ACL is not conflicting with IPv6 Unicast RPF resource

Severity: Warning

Explanation: IPv6 Unicast RPF configuration is active again since supported TCAM profile is used.

Recommended Action: No action is required – this message is for information only.

NO_EGRESS_RACL_SHARING_OVERRIDE_URPF: IPv6 Unicast RPF is enabled as the egress router ACL sharing is disabled.

Severity: Warning

Explanation: IPv6 Unicast RPF configuration is active again since egress router ACL sharing is disabled.

Recommended Action: No action is required – this message is for information only.

NO_FEC_SHARING_OVERRIDE_URPF: IPv6 Unicast RPF is re-enabled since IPv4-IPv6 FEC sharing is disabled.

Severity: Warning

Explanation: IPv6 Unicast RPF configuration is active again since IPv4-IPv6 FEC sharing is disabled.

Recommended Action: No action is required – this message is for information only.

NO_ROUTE_OPTIMIZATION_OVERRIDE_URPF: IPv6 Unicast RPF is re-enabled since ipv6 routes in exact match is disabled.

Severity: Warning

Explanation: IPv6 Unicast RPF configuration is active again since ipv6 routes in exact match is disabled.

Recommended Action: No action is required – this message is for information only.

POLICY_RECMP_CAPACITY_EXCEEDED: Total next hop count (%s) for policy marked RECMC routes has exceeded the configured capacity. FEC utilization may increase, because FEC sharing may not work.

Severity: Info

Explanation: If the cumulative total of all possible next hops for all routes marked for RECMC is greater than the configured capacity, then resilient FEC sharing may not work, which can increase FEC utilization.

Recommended Action: Reconfigure the policy marked RECMC capacity to be greater than the total next hop count.

RECMC_CAPACITY_EXCEEDED: Total next hop count (%s) under RECMC parent prefix %a has exceeded the parent prefix's configured capacity. FEC utilization may increase, because FEC sharing may not work.

Severity: Info

Explanation: If the cumulative total of all possible next hops for all routes falling under a given RECMC parent prefix is greater than the configured capacity for that RECMC parent prefix, then resilient FEC sharing may not work, which can increase FEC utilization.

Recommended Action: Reconfigure the RECMC parent prefix capacity to be greater than the total next hop count.

ROUTE_OPTIMIZATION_OVERRIDE_URPF: IPv6 Unicast RPF does not work and is disabled since ipv6 routes in exact match option is configured

Severity: Warning

Explanation: IPv6 Unicast RPF does not work when ipv6 routes in exact match is configured. Unconfigure the option for unicast RPF to be enabled again

Recommended Action: No action is required – this message is for information only.

URPF_IPV4_CONFLICT: IPv6 Unicast RPF on %s disabled, conflicts with IPv4 Unicast RPF

Severity: Warning

Explanation: IPv6 Unicast RPF on the listed interface is disabled because it conflicts with IPv4 Unicast RPF on the interface

Recommended Action: No action is required – this message is for information only.

URPF_IPV4_NO_CONFLICT: IPv6 Unicast RPF on %s re-enabled. Doesn't conflict with IPv4 Unicast RPF

Severity: Warning

Explanation: IPv6 Unicast RPF on the listed interface is re-enabled because it no longer conflicts with IPv4 Unicast RPF on the interface

Recommended Action: No action is required – this message is for information only.

2.61 IPRIB Messages

FD_SET_LIMIT_FAILED: Set limit failed with error %s

Severity: Notice

Explanation: Set limit failed

Recommended Action: No action is required – this message is for information only.

RIBREADY_FIB: All routes in VRF %s are available in FIB

Severity: Notice

Explanation: Routes have also been recursively resolved and are available in Fib. With all routes now being ready in FIB, forwarding agent will start syncing them down to hardware without fear of purging any routes, had router undergone hitless system upgrade

Recommended Action: No action is required – this message is for information only.

RIBREADY_FIB_TIMEOUT: Protocols in VRF %s that did not converge: %s

Severity: Warning

Explanation: IpRib agent timed out waiting for one or more routing protocols to converge. During hitless reload this may lead to routes being deleted from hardware temporarily until the routing protocols converge.

Recommended Action: No action is required – this message is for information only.

RIBREADY_IGP: IGP protocols in VRF %s have converged

Severity: Notice

Explanation: IGP protocols(say OSPF) have converged and routes are now available in FIB. Besides IGP protocols, IpRib agent is also done with initial processing of all connected and static routes

Recommended Action: No action is required – this message is for information only.

RIBREADY_PROTO: All protocols in VRF %s have converged

Severity: Notice

Explanation: All protocols that were configured in this vrf have converged and routes are now available in FIB

Recommended Action: No action is required – this message is for information only.

2.62 IPSEC Messages

FIPS_RESTART: Restarting Isec agent for %s restrictions. All existing Isec connections will be restarted

Severity: Info

Explanation: IPsec agent needs to restart if the FIPS restrictions are changed

Recommended Action: No action is required – this message is for information only.

FIPS_SAME_ENCRYPT_DECRYPT_KEY: Isec control plane(IKE) derived same keys for the encryption and the decryption in the FIPS restrictions

Severity: Error

Explanation: IPsec agent will now restart as it is extremely improbable to derive the same crypto keys to encrypt and decrypt data traffic for an Isec session in the FIPS restrictions

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FIPS_SELF_TEST_FAILED: IPsec agent control plane self test has failed in the FIPS restrictions

Severity: Error

Explanation: IPsec agent will not bring up any connections to avoid compromising system security in the FIPS restrictions

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

2.63 IPV6 Messages

RA_INCONSISTENT: Received inconsistent Router Advertisement from %s on %s

Severity: Error

Explanation: A Router Advertisement was received with one or more of the following fields inconsistent: Current Hop Limit, Managed Config Flag, Other Config Flag, Reachable Time, Retrans Timer, MTU, On Link Flag (per prefix), Auto Config Flag (per prefix), Preferred Lifetime (per prefix), Valid Lifetime (per prefix)

Recommended Action: No action is required – this message is for information only.

2.64 IRA Messages

RELOAD_HITLESS_INTF_CONFIG_RESTORATION_TIMEOUT: Timed out waiting for IP configuration to be applied on all interfaces.

Severity: Warning

Explanation: This may result in some traffic disruption during ASU.

Recommended Action: No action is required – this message is for information only.

RELOAD_HITLESS_INTF_VRF_RESTORATION_TIMEOUT: Timed out waiting for vrf configuration to be applied on all interfaces.

Severity: Warning

Explanation: This may result in some traffic disruption during ASU.

Recommended Action: No action is required – this message is for information only.

2.65 ISIS Messages

ADJACENCY_CHANGE: Neighbor %a state changed to %s

Severity: Warning

Explanation: A neighbor's IS-IS adjacency state has changed.

Recommended Action: Usually, no action is required. This information can be useful for troubleshooting IS-IS if the switch is not properly maintaining adjacency with one or more neighbors.

CONVERGED: ISIS in VRF %s has converged and its routes are in FIB

Severity: Notice

Explanation: ISIS has converged after listening to updates from peers if any and is now ready to advertise best path routes to peers

Recommended Action: No action is required – this message is for information only.

DUPLICATE_SYSTEM_ID: Duplicate system ID %s detected

Severity: Error

Explanation: Presence of duplicate system ID detected in the network. Multiple devices in the network might have the same system ID.

Recommended Action: Check IS-IS routers in the network for a duplicate system ID.

2.66 KERNELFIB Messages

AGENT_RESTART: KernelFib netlink socket has encountered ENOBUF %d times.

Severity: Notice

Explanation: Restarting the Agent.

Recommended Action: No action is required – this message is for information only.

DEFAULT_HW_OFFLOAD_NOSRC: A hardware offload default route %s was added without a source IP.

Severity: Warning

Explanation: Providing a source IP using the "software forwarding hardware offload route local interface" config is recommended.

Recommended Action: No action is required – this message is for information only.

THROTTLE_REDUCED: Limiting the number of outstanding netlink requests to %d.

Severity: Notice

Explanation: KernelFib netlink socket has encountered ENOBUF.

Recommended Action: No action is required – this message is for information only.

2.67 L1PROFILE Messages

MODULE_APPLIED: L1 module profile configuration %s applied for %s

Severity: Info

Explanation: L1 Profile configuration has been successfully applied

Recommended Action: No action is required – this message is for information only.

MODULE_ERROR: L1 module profile configuration error for %s: %s

Severity: Error

Explanation: Error encountered while applying L1 Profile configuration

Recommended Action: Ensure that this module supports L1 Profiles, then provide a valid L1 Profile configuration for this module

2.68 L1SOURCE Messages

OK: Layer1 sourcing has been successfully applied between source %s and destination %s.

Severity: Info

Explanation: The speeds now match between the two interfaces and the originally requested sourcing has been applied.

Recommended Action: No action is required – this message is for information only.

SPEED_MISMATCH: Speed mismatch found between Layer1 source %s and destination %s, configuration has not been applied.

Severity: Info

Explanation: A speed mismatch was found between a source and a destination interface. Sourcing will only be applied if two interfaces have the same speed configured.

Recommended Action: Configure matching interface speeds on both source and destination interfaces.

UNSUPPORTED: The configured Layer1 source for %s is unsupported.

Severity: Info

Explanation: The configured source is not supported for the destination interface.

Recommended Action: Ensure that the interface supports dynamic sourcing and supports configuring the source at the given speed.

2.69 LACP Messages

ACTOR_CHURN: LACP Actor Churn Detected on %s

Severity: Warning

Explanation: LACP could not come to a decision on an aggregate

Recommended Action: Investigate the LACP configuration on this system and its peer. Ensure that all ports in the aggregate are connected to the same remote system, and are all configured to be in the aggregate on the remote system.

FALLBACK_INACTIVE: Reverting to normal LACP negotiation on interface %s.

Severity: Notice

Explanation: An LACP message was received on a member interface of a port-channel after LACP fallback mode became active. When this happens, LACP fallback mode is deactivated and normal LACP negotiation is resumed.

Recommended Action: No action is required – this message is for information only.

FALLBACK_INDIVIDUAL: Entering individual fallback mode on interface %s. Activating members of interface %s as individual switchports without successful LACP negotiation

Severity: Notice

Explanation: The LACP fallback timer expired on a port-channel interface because no LACP messages were received on any of its member interfaces. All members of this interface are being made active as individual switchports.

Recommended Action: No action is required – this message is for information only.

FALLBACK_MISMATCH: Unable to enter fallback mode on interface %s due to mismatched fallback state with MLAG peer.

Severity: Notice

Explanation: The port-channel is unable to enter fallback mode because the peer and local switches are in different fallback states.

Recommended Action: Verify the port-channel is configured with the same fallback mode on each peer and wait for both peers to be in same fallback state

FALLBACK_STATIC: Entering static fallback mode on interface %s.

Severity: Notice

Explanation: The LACP fallback timer expired on a port-channel interface because no LACP messages were received on any of its member interfaces. Will attempt to make one member of the port-channel statically active until LACP control traffic resumes.

Recommended Action: No action is required – this message is for information only.

FALLBACK_STATIC_ACTIVE: Activating member interface %s of port-channel %s without successful LACP negotiation.

Severity: Notice

Explanation: In static fallback mode, one member interface is activated statically.

Recommended Action: No action is required – this message is for information only.

FALLBACK_STATIC_INACTIVE: No member interface of port-channel %s is activated statically

Severity: Notice

Explanation: In static fallback mode, none of the member interfaces is activated statically, maybe all member links are down.

Recommended Action: No action is required – this message is for information only.

FALLBACK_STATIC_WITHDRAW: Withdraw statically activated member interface %s from port-channel %s, port-channel %s now has no active member

Severity: Notice

Explanation: In static fallback mode, one active member interface is withdrawn from port-channel, the port-channel now has no active member.

Recommended Action: No action is required – this message is for information only.

PARTNER_CHURN: LACP Partner Churn Detected on %s

Severity: Warning

Explanation: LACP could not come to a decision on an aggregate

Recommended Action: Investigate the LACP configuration on this system and its peer. Ensure that all ports in the aggregate are connected to the same remote system, and are all configured to be in the aggregate on the remote system. If not associated with simultaneous actor churn, check if the remote system has aggregation limits that prevent this port from joining the aggregate.

RXDOT1QPKT: An 802.1Q tagged LACP packet was received and discarded on interface %s.

Severity: Warning

Explanation: The switch received an 802.1Q tagged LACP packet. Arista Networks switches drop these packets without further processing, so the protocol may not function properly on the receiving interface. To fix this problem, reconfigure the sending switch to transmit its LACP packets untagged.

Recommended Action: The switch received and discarded an 802.1Q tagged LACP packet. LACP will not function properly on the receiving interface. To fix this problem, reconfigure the sending switch to transmit its LACP packets untagged.

2.70 LAG Messages

MEMBER_ADDED: Interface %s has joined %s

Severity: Notice

Explanation: An Ethernet interface has become an active member of port-channel.

Recommended Action: No action is required – this message is for information only.

MEMBER_HW_LIMIT_EXCEEDED: Interface %s can not be added to %s in hardware; it already contains the maximum number of members (%d).

Severity: Error

Explanation: Port-channel group member limit exceeded.

Recommended Action: Please remove this member from the port-channel group.

MEMBER_NO_HW_ID: Interface %s, which is being removed from %s, does not have a valid hardware ID. This may not be a problem if the interface was previously ignored due to membership overflow.

Severity: Warning

Explanation: Port-channel member missing hardware ID.

Recommended Action: No action is required – this message is for information only.

MEMBER_REMOVED: Interface %s has left %s due to: %s

Severity: Notice

Explanation: An Ethernet interface is no longer part of port-channel.

Recommended Action: No action is required – this message is for information only.

MINLINK_INTF_INSUFFICIENT: %s has %s active member interfaces with configured min-links %s

Severity: Warning

Explanation: Port-Channel has fewer member interfaces than configured min-links.

Recommended Action: Investigate the LAG/LACP configuration on this system and its peer. Ensure that all ports in the compatible aggregate are connected to the same remote system, and are all configured to be in the compatible aggregate on the remote system.

MINLINK_INTF_NORMAL: %s has %s active member interfaces with configured min-links %s

Severity: Notice

Explanation: Port-Channel has sufficient member interfaces as per configured min-links.

Recommended Action: No action is required – this message is for information only.

MINSPEED_INTF_INSUFFICIENT: %s has active member interfaces with total speed %s and configured minimum speed %s

Severity: Warning

Explanation: Port-Channel has member interfaces with total speed less than configured min-speed.

Recommended Action: Investigate the LAG/LACP configuration on this system and its peer. Ensure that all ports in the compatible aggregate are connected to the same remote system, and are all configured to be in the compatible aggregate on the remote system.

MINSPEED_INTF_NORMAL: %s has active member interfaces with total speed %s and configured minimum speed %s

Severity: Notice

Explanation: Port-Channel member interfaces have sufficient total speed as per configured min-speed.

Recommended Action: No action is required – this message is for information only.

NOT_PROGRAMMED: %s can not be programmed in hardware due to insufficient hardware resources.

Severity: Error

Explanation: Port-channel group hardware ID limit exceeded.

Recommended Action: To free resources, remove configured port channels or internally allocated port channels.

PROGRAMMED: %s was successfully programmed in hardware.

Severity: Error

Explanation: The switch was able to program this port-channel group

Recommended Action: No action is required – this message is for information only.

2.71 LAUNCHER Messages

BOOT_STATUS: 'reload hitless' reconciliation complete.

Severity: Info

Explanation: Prioritized agents participating in 'reload hitless' have completed reconciliation.

Recommended Action: No action is required – this message is for information only.

PROCESS_MISCONFIG: Internal error: process '%s' in role '%s' is misconfigured and can not be started. This is a bug! Reason: %s

Severity: Error

Explanation: The named process is misconfigured, and can not be started. The feature it implements can not be enabled. The system is at least partially broken. This is probably due to a bug.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

PROCESS_RESTART: Configuring process '%s' to restart in role '%s'

Severity: Info

Explanation: Launcher is configuring process '%s' to be restarted by ProcMgr due to a changed process configuration.

Recommended Action: No action is required – this message is for information only.

PROCESS_START: Configuring process '%s' to start in role '%s'

Severity: Info

Explanation: Launcher is configuring process '%s' to be started by ProcMgr

Recommended Action: No action is required – this message is for information only.

PROCESS_STOP: Configuring process '%s' to stop in role '%s'

Severity: Info

Explanation: Launcher is configuring process '%s' to be stopped by ProcMgr

Recommended Action: No action is required – this message is for information only.

PROCMGR_WARMSTART: Initiating warm start of 'ProcMgr (worker)'

Severity: Info

Explanation: Launcher is initiating a ProcMgr worker warm start in order to get ProcMgr to start newly-configured agents, or to stop de-configured agents. This message should have been preceded by at least one message regarding process start, restart, or stop.

Recommended Action: No action is required – this message is for information only.

2.72 LAYER1MONITOR Messages

MAC_LOCAL_FAULT_CLEARED: %s MAC local fault condition cleared

Severity: Info

Explanation: The MAC local fault condition cleared on an interface.

Recommended Action: No action is required.

MAC_LOCAL_FAULT_DETECTED: %s MAC local fault condition detected

Severity: Info

Explanation: A MAC local fault condition was detected on an interface, indicating a physical layer problem receiving frames.

Recommended Action: Check the physical connection (e.g., cable) between the devices and the configuration of the link on both ends.

MAC_REMOTE_FAULT_CLEARED: %s MAC remote fault condition cleared

Severity: Info

Explanation: The MAC remote fault condition cleared on an interface.

Recommended Action: No action is required.

MAC_REMOTE_FAULT_DETECTED: %s MAC remote fault condition detected

Severity: Info

Explanation: A MAC remote fault condition was detected on an interface, indicating a physical layer problem receiving frames at its peer.

Recommended Action: Check the physical connection (e.g., cable) between the devices and the configuration of the link on both ends.

RXPOWER_THRESHOLD_HIGH_ALARM: %s receive power is %sdBm, which is at or above the alarm threshold of %sdBm.

Severity: Error

Explanation: The transceiver receive power monitor is currently reporting a value above the alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

RXPOWER_THRESHOLD_HIGH_WARN: %s receive power is %sdBm, which is at or above the warning threshold of %sdBm.

Severity: Error

Explanation: The transceiver receive power monitor is currently reporting a value above the warning threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

RXPOWER_THRESHOLD_LOW_ALARM: %s receive power is %sdBm, which is at or below the alarm threshold of %sdBm.

Severity: Error

Explanation: The transceiver receive power monitor is currently reporting a value below the alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

RXPOWER_THRESHOLD_LOW_WARN: %s receive power is %sdBm, which is at or below the warning threshold of %sdBm.

Severity: Error

Explanation: The transceiver receive power monitor is currently reporting a value below the warning threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

RXPOWER_THRESHOLD_RECOVERED: %s receive power has returned to normal.

Severity: Error

Explanation: The transceiver receive power monitor is currently reporting a value in the normal operating range.

Recommended Action: No action is required – this message is for information only.

TEMPERATURE_THRESHOLD_HIGH_ALARM: %s temperature is %sC, which is at or above the alarm threshold of %sC.

Severity: Error

Explanation: The transceiver temperature monitor is currently reporting a value above the alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TEMPERATURE_THRESHOLD_HIGH_WARN: %s temperature is %sC, which is at or above the warning threshold of %sC.

Severity: Error

Explanation: The transceiver temperature monitor is currently reporting a value above the warning threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TEMPERATURE_THRESHOLD_LOW_ALARM: %s temperature is %sC, which is at or below the alarm threshold of %sC.

Severity: Error

Explanation: The transceiver temperature monitor is currently reporting a value below the alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TEMPERATURE_THRESHOLD_LOW_WARN: %s temperature is %sC, which is at or below the warning threshold of %sC.

Severity: Error

Explanation: The transceiver temperature monitor is currently reporting a value below the warning threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TEMPERATURE_THRESHOLD_RECOVERED: %s temperature has returned to normal.

Severity: Error

Explanation: The transceiver temperature monitor is currently reporting a value in the normal operating range.

Recommended Action: No action is required – this message is for information only.

TRANSCEIVER_RESET_SMBUS_FAILURES: Transceiver for interface %s has encountered successive SMBus transaction failures and will be reset. Vendor: %s, model: %s, rev: %s, serial number: %s

Severity: Warning

Explanation: The transceiver has experienced successive SMBus transaction failures and will be reset. This may result in a link flap.

Recommended Action: No action is required – this message is for information only.

TRANSCEIVER_SMBUS_TRANSACTION_FAILURE: Transceiver for interface %s has encountered an SMBus transaction failure. Vendor: %s, model: %s, rev: %s, serial number: %s

Severity: Info

Explanation: The transceiver has experienced an SMBus transaction failure.

Recommended Action: No action is required – this message is for information only.

TXBIAS_THRESHOLD_HIGH_ALARM: %s transmit bias is %smA, which is at or above the alarm threshold of %smA.

Severity: Error

Explanation: The transceiver transmit bias monitor is currently reporting a value above the alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TXBIAS_THRESHOLD_HIGH_WARN: %s transmit bias is %smA, which is at or above the warning threshold of %smA.

Severity: Error

Explanation: The transceiver transmit bias monitor is currently reporting a value above the warning threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TXBIAS_THRESHOLD_LOW_ALARM: %s transmit bias is %smA, which is at or below the alarm threshold of %smA.

Severity: Error

Explanation: The transceiver transmit bias monitor is currently reporting a value below the alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TXBIAS_THRESHOLD_LOW_WARN: %s transmit bias is %smA, which is at or below the warning threshold of %smA.

Severity: Error

Explanation: The transceiver transmit bias monitor is currently reporting a value below the warning threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TXBIAS_THRESHOLD_RECOVERED: %s transmit bias has returned to normal.

Severity: Error

Explanation: The transceiver transmit bias monitor is currently reporting a value in the normal operating range.

Recommended Action: No action is required – this message is for information only.

TXPOWER_THRESHOLD_HIGH_ALARM: %s transmit power is %sdBm, which is at or above the alarm threshold of %sdBm.

Severity: Error

Explanation: The transceiver transmit power monitor is currently reporting a value above the alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TXPOWER_THRESHOLD_HIGH_WARN: %s transmit power is %sdBm, which is at or above the warning threshold of %sdBm.

Severity: Error

Explanation: The transceiver transmit power monitor is currently reporting a value above the warning threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TXPOWER_THRESHOLD_LOW_ALARM: %s transmit power is %sdBm, which is at or below the alarm threshold of %sdBm.

Severity: Error

Explanation: The transceiver transmit power monitor is currently reporting a value below the alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TXPOWER_THRESHOLD_LOW_WARN: %s transmit power is %sdBm, which is at or below the warning threshold of %sdBm.

Severity: Error

Explanation: The transceiver transmit power monitor is currently reporting a value below the warning threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TXPOWER_THRESHOLD_RECOVERED: %s transmit power has returned to normal.

Severity: Error

Explanation: The transceiver transmit power monitor is currently reporting a value in the normal operating range.

Recommended Action: No action is required – this message is for information only.

VOLTAGE_THRESHOLD_HIGH_ALARM: %s voltage is %sV, which is at or above the alarm threshold of %sV.

Severity: Error

Explanation: The transceiver voltage monitor is currently reporting a value above the alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

VOLTAGE_THRESHOLD_HIGH_WARN: %s voltage is %sV, which is at or above the warning threshold of %sV.

Severity: Error

Explanation: The transceiver voltage monitor is currently reporting a value above the warning threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

VOLTAGE_THRESHOLD_LOW_ALARM: %s voltage is %sV, which is at or below the alarm threshold of %sV.

Severity: Error

Explanation: The transceiver voltage monitor is currently reporting a value below the alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

VOLTAGE_THRESHOLD_LOW_WARN: %s voltage is %sV, which is at or below the warning threshold of %sV.

Severity: Error

Explanation: The transceiver voltage monitor is currently reporting a value below the warning threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

VOLTAGE_THRESHOLD_RECOVERED: %s voltage has returned to normal.

Severity: Error

Explanation: The transceiver voltage monitor is currently reporting a value in the normal operating range.

Recommended Action: No action is required – this message is for information only.

2.73 LDP Messages

DUPLICATE_PEER_INTERFACE_IP: Duplicate interface IP %s detected on %s

Severity: Warning

Explanation: Multiple LDP peers are currently advertising the same interface IP

Recommended Action: Ensure only one device is configured with the IP address

DUPLICATE_PEER_INTERFACE_IP_RESOLVED: Duplicate interface IP %s resolved

Severity: Warning

Explanation: The IP address is now only advertised by one LDP peer

Recommended Action: No action is required – this message is for information only.

PDU_EXCEEDS_MAX_PDU_LENGTH: %s message with length %s causing PDU to exceed max PDU length %s has been sent to peer with LDP ID %s

Severity: Warning

Explanation: An LDP PDU has been sent to a peer which contains a message causing the PDU length to exceed the max PDU length negotiated for the session. This can be due to the peer negotiating a very small max PDU length during session initialization. The peer may terminate the session as a result of receiving an oversized PDU.

Recommended Action: Ensure a sufficiently large max PDU length is configured on the peer.

SESSION_DOWN: Peer LDP ID: %s, Local LDP ID: %s, VRF: %s, Uptime: %s, Reason: %s

Severity: Info

Explanation: The TCP session with the specified LDP peer is closed.

Recommended Action: No action is required – this message is for information only.

SESSION_REJECTED_BAD_ID: LDP session rejected for peer address %s, LDP ID %s

Severity: Warning

Explanation: LDP session rejected because the LDP ID does not belong to a known adjacency.

Recommended Action: If the problem persists, check for network intrusion attempts from the peer address.

SESSION_REJECTED_BAD_PEER_ADDR: LDP session rejected for peer address %s when transport address %s was expected for LDP ID %s

Severity: Warning

Explanation: LDP session rejected because the peer address is different than the advertised transport address.

Recommended Action: Check for network intrusion attempts from the peer address.

SESSION_UP: Peer LDP ID: %s, Peer IP: %a, Local LDP ID: %s, VRF: %s

Severity: Info

Explanation: A new TCP session has been established with the LDP peer on the given IP address in the specified VRF.

Recommended Action: No action is required – this message is for information only.

2.74 LICENSE Messages

ABOUT_TO_EXPIRE: License for feature %s expires %s.

Severity: Warning

Explanation:

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

CLOCK_TAMPERED: System clock tampering has been detected.

Severity: Warning

Explanation: Feature agents may stop working.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EXPIRED: License for feature %s has expired.

Severity: Error

Explanation: The feature will remain unusable until the licensing issue is resolved.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

NOT_FOUND: Feature %s enabled without a valid license.

Severity: Warning

Explanation: No license was found for the feature.

Recommended Action: Make sure that license file is installed. If the problem persists, contact your support representative. Otherwise, no action is required.

VIRTUAL_ROUTE_REFLECTOR: cloudeos-route-reflector license terms are being exceeded. Limit is %s paths but the system is processing %s paths.

Severity: Warning

Explanation: The system is processing more paths than are permitted under the license

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

VIRTUAL_ROUTE_REFLECTOR_RESOLVED: The number of paths is now %s, which is below the maximum permitted by the cloudeos-route-reflector license.

Severity: Warning

Explanation: The number of paths in the system is now under the limit set by the veos-route-reflector license

Recommended Action: No action is required – this message is for information only.

2.75 LINEPROTO Messages

UPDOWN: Line protocol on Interface %s, changed state to %s

Severity: Notice

Explanation: The link-layer connection on the given interface has come up or down. If it is not up, then communication with our link partner is not possible.

Recommended Action: If the connection has gone down unexpectedly, check the physical connection (e.g., cable) between the devices and the configuration of the link on both ends.

2.76 LLDP Messages

NEIGHBOR_GONE: Received a shutdown frame from LLDP neighbor with chassisId %s and portId %s on interface %s

Severity: Notice

Explanation: An LLDP neighbor was deleted from the neighbor table since an LLDPDU with a TTL of 0 was received from that neighbor.

Recommended Action: No action is required – this message is for information only.

NEIGHBOR_NEW: LLDP neighbor with chassisId %s and portId %s added on interface %s

Severity: Notice

Explanation: A new LLDP neighbor was added to the neighbor table.

Recommended Action: No action is required – this message is for information only.

NEIGHBOR_TIMEOUT: LLDP neighbor with chassisId %s and portId %s timed out on interface %s

Severity: Notice

Explanation: An LLDP neighbor was deleted from the neighbor table since it timed out.

Recommended Action: No action is required – this message is for information only.

REMOTE_TABLES_CLEARED: LLDP neighbor table cleared by %s on %s

Severity: Notice

Explanation: The LLDP neighbor table was cleared by a CLI command.

Recommended Action: No action is required – this message is for information only.

RX_RATELIMIT: Exceeded Rx LLDPDU rate limit on %s (more than %d LLDPDUs in %f seconds)

Severity: Warning

Explanation: The switch received too many LLDPDUs on a port in too short a period of time, so we dropped the most recent received LLDPDU.

Recommended Action: This could indicate a mis-configured neighbor, or a network loop. Check the configuration of the neighbor connected to the interface and configure the LLDPDUs to be sent at a reasonable rate and ensure there are no network loops.

2.77 LOADBALANCE Messages

DUPLICATE_MATCH_RULE_IGNORED: Ignoring match rule %s in traffic policy %s as it conflicts with another match rule %s in traffic policy %s applied in the same VRF

Severity: Warning

Explanation: The specified match rule was not programmed in hardware as it was found to conflict with another match rule applied in the same VRF. Within a given VRF, there cannot be two identical match rules.

Recommended Action: Use unique match rules in a given VRF that don't conflict with other match rules configured in the same VRF.

ENTROPY_LABEL_HASH_UNSUPPORTED_HARDWARE: Entropy Label Hashing is not supported on fap type %s, slice %s

Severity: Error

Explanation: Entropy label hashing is supported only on switch chips of type Jericho

Recommended Action: Please revert back to default hashing using 'fields mpls label' in load-balance policies

HW_CONNECTION_HISTORY_EXPIRE_EARLIER: Hardware resources are insufficient to program a new connection history entry for group ID %d, hash %d, server %s, expiring earlier entry of group ID %d, hash %d, server %s to make space.

Severity: Warning

Explanation: To help avoid this issue increase the interval of updates to the nexthop groups.

Recommended Action: No action is required – this message is for information only.

HW_CONNECTION_HISTORY_VERSION_FULL: Hardware resources are insufficient to program a new connection history entry for group ID %d, hash %d, server %s. Expiring earlier entry of server %s to make space.

Severity: Warning

Explanation: To help avoid this issue increase the interval of updates to the nexthop groups.

Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: Hardware resources are insufficient to program all the match rules

Severity: Warning

Explanation: The switch is unable to program all the match rules due to insufficient hardware resources. The switch encountered this issue because the total number of configured match rules exceed the available hardware resources.

Recommended Action: To solve this issue, reduce the number of configured match rules. The switch will then automatically program any unprogrammed match rules in hardware.

HW_RESOURCE_NORMAL: All the configured match rules are programmed in hardware.

Severity: Warning

Explanation: The switch was able to program all the configured match rules in hardware.

Recommended Action: No action is required – this message is for information only.

INVALID_IPV6_TUNNEL_ADDRESS: IPv6 tunnel address configuration is being ignored due to multiple IPv6 addresses on %s.

Severity: Error

Explanation: Configuration of the IPv6 tunnel address is valid when there is only 1 IPv6 address on the tunnel source interface

Recommended Action: Configure a single IPv6 address on the tunnel source interface

SERVER_ADMINSTATE_CHANGE: Server %s from nexthop group %s changed admin state from %s to %s%

Severity: Notice

Explanation: Server state changed. When a server state changes from ENABLED to SHUTDOWN, it indicates that the server has been brought down administratively, either via CLI or by sending an appropriate probe response from the server, indicating that it's being put under maintenance mode.

Recommended Action: No action is required – this message is for information only.

SERVER_OPERSTATE_CHANGE: Server %s from nexthop group %s changed operational state from %s to %s%s

Severity: Notice

Explanation: Server state changed. A server state change from DOWN to UP is expected when it is inserted. A transition from UP to DOWN can be due to network issues or some server misconfiguration.

Recommended Action: No action is required – this message is for information only.

SERVICE_DOWN: Policy %s, match rule %s doesn't have an active server

Severity: Notice

Explanation: Packets destined to the service will be dropped

Recommended Action: Ensure the configuration is correct and the servers in the nexthop-group associated with the policy/match-rule are active. If monitoring is enabled, make sure health checks can be performed.

SERVICE_UP: Policy %s, match rule %s is programmed in hardware and has at least one active server

Severity: Notice

Explanation: Packets destined to the service can be load-balanced.

Recommended Action: No action is required – this message is for information only.

2.78 LOGMGR Messages

CONSOLE_LOGGING_ERROR: An error occurred initializing console logging

Severity: Warning

Explanation: Console logging may not function properly because an error occurred while setting access permissions.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SOURCE_ADDRESS_ASSIGNED_TO_INACTIVE_INTERFACE: Source-Address %s is assigned to an inactive interface %s in VRF %s.

Severity: Warning

Explanation: Configured logging source-address is assigned to an inactive interface on the configured VRF. TCP hosts won't receive syslog from an inactive interface.

Recommended Action: Please assign the configured source-address to an active interface on the configured VRF.

SOURCE_ADDRESS_UNASSIGNED: Source-Address %s is not assigned to any interface in VRF %s.

Severity: Warning

Explanation: Configured logging source-address is unassigned to any interface in the configured VRF. The source-address option will be ignored until it is assigned to an interface on the configured VRF.

Recommended Action: Please assign the configured source-address to an interface on the configured VRF.

TCP_SOURCE_ADDRESS_BOUND_TO_VIRTUAL_INTERFACE: Source-Address %s is assigned to a virtual interface %s in VRF %s with TCP host(s).

Severity: Warning

Explanation: Configuring logging source-address with TCP host(s) requires the interface to be a physical interface with valid Layer 2 configurations.

Recommended Action: Please assign the configured source-address to a physical interface on the configured VRF.

TCP_SOURCE_INTERFACE_UNSUPPORTED: Source-Interface spoofing requested with TCP.

Severity: Warning

Explanation: Configuring logging source-interface with a TCP host is not supported. The source-interface option will be ignored.

Recommended Action: Please choose either UDP with source-interface spoofing or TCP without source-interface spoofing.

TIMESTAMP_FORMAT_ERROR: Unknown timestamp format '%s' was specified

Severity: Error

Explanation: Logging may not function as expected because an unknown timestamp format was requested. A default timestamp format will be used instead.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TLS_MISSING_TRUSTED_CERTIFICATE: No trusted certificate is configured for SSL profile %s.

Severity: Warning

Explanation: No trusted certificate is configured. TLS settings will be ignored.

Recommended Action: Please add a valid trusted certificate to the configured SSL profile.

2.79 LOOPBACK Messages

MODE_CHANGE: The loopback mode of interface %s has changed to %s

Severity: Info

Explanation: The system detected that the loopback mode of an interface has changed

Recommended Action: No action is required – this message is for information only.

2.80 LOOPPROTECT Messages

INTF_UP: Bringing interface %s back up after a loop was detected

Severity: Info

Explanation: Loop protection is configured to bring an interface back up after a period of time has elapsed.

Recommended Action: No action is required – this message is for information only.

RX_OTHER: Received a malformed Loop Protection packet on interface %s

Severity: Info

Explanation: This may be caused by other switches on the network using ether type 0x88B7, but the source mac for the packet matched this switch.

Recommended Action: No action is required – this message is for information only.

THROTTLE: Too many loop protection packet transmits in a second. Throttling.

Severity: Warning

Explanation: Loop protection is configured to rate-limit the number of packets sent per second and this limit was reached.

Recommended Action: No action is required – this message is for information only.

2.81 MACSEC Messages

FIPS_POST_START: MACsec FIPS restrictions enabled, starting FIPS POST on: %s, which will cause a traffic outage.

Severity: Warning

Explanation: MACsec FIPS restrictions has been enabled after an SSU reload. FIPS POST must run in order for the linecards to be compliant with the latest FIPS standards. This will cause a traffic outage.

Recommended Action: No action is required – this message is for information only.

POST_FAILURE: Power On Self Test failed for %s with %d-bit key due to %s on interface %s.

Severity: Error

Explanation: This failure blocks MACsec configuration from taking effect on this interface. Remove and add mac security profile on the interface to retry the test.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

RECEIVED_LATE_PACKETS: Received %u packets late on interface %s with SCI %s AN %d

Severity: Info

Explanation: Packets arrived with delayed or out of order sequence numbers

Recommended Action: No action is required – this message is for information only.

SUBINTERFACE_LIMIT_EXCEEDED: MACsec configuration is ignored on %s because too many subinterfaces are configured with MACsec.

Severity: Error

Explanation: MACsec subinterfaces limit exceeded on an interface

Recommended Action: Remove the MACsec configuration from the subinterface

UNSUPPORTED_BYPASS_CONFIG: Per-profile PTP bypass not configurable on %s

Severity: Error

Explanation: Per-profile PTP bypass is not supported by the MACsec hardware that has been configured.

Recommended Action: Remove unsupported per-profile PTP bypass configuration for MKA sessions to come up

UNSUPPORTED_EAPOL_CONFIG: EAPOL destination not configurable on %s

Severity: Error

Explanation: Configurable EAPOL attributes for MACsec is not supported by the MACsec hardware that has been configured.

Recommended Action: Remove unsupported eapol mac destination configuration for MKA sessions to come up

UNSUPPORTED_PTP_BYPASS: PTP bypass is applied to some interfaces without full bypass support

Severity: Warning

Explanation: PTP traffic may not be bypassed on the configured interfaces.

Recommended Action: See 'show mac security ptp bypass' for per interface support.

2.82 MAPREDUCEMONITOR Messages

TASKTRACKER_ACTIVE: TaskTracker %s changed state to active

Severity: Info

Explanation: TaskTracker resolved as locally attached by the switch

Recommended Action: No action is required – this message is for information only.

TASKTRACKER_INACTIVE: TaskTracker %s changed state to inactive due to: %s

Severity: Info

Explanation: TaskTracker cannot be determined to be locally attached either due to unresolved ARP entry from TaskTracker IP address or failure to resolve the TaskTracker name to an IP address. The log message provides the cause.

Recommended Action: Check the connectivity from the switch to the TaskTracker and if TaskTracker name to IP address resolution can be performed from the switch.

TASKTRACKER_REMOVED: TaskTracker %s is no longer part of the Hadoop cluster %s

Severity: Info

Explanation: The TaskTracker is no longer part of the cluster as announced by the JobTracker.

Recommended Action: No action is required – this message is for information only.

2.83 MARCO Messages

PUBLISHER_SUBSCRIBER_COUNT: The publisher %s(%s) contains %u subscribers. %s

Severity: Info

Explanation: This log message is only generated if debugs are enabled.

Recommended Action: No action is required – this message is for information only.

2.84 MATCH Messages

RULE_FIELD_UNAVAILABLE: The %s field configured in the %s rule in %s is not present in the TCAM key.

Severity: Info

Explanation: This field will not be programmed in the TCAM and this may have side effects such as false positives and shadowing of more specific rules. Remove the field from the rule or add the field to the TCAM key.

Recommended Action: No action is required – this message is for information only.

2.85 MAX24305 Messages

INIT_FAILED: Possible hardware error with the Max24305 chip.

Severity: Error

Explanation: Initialization of the Max24305 chip has failed.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.86 MCS Messages

IMPACTED_RECEIVER_REASON: %s

Severity: Info

Explanation: An MCS receiver has become impacted, severing the multicast traffic flow to the receiving device's interface.

Recommended Action: No action is required – this message is for information only.

2.87 MESSAGE Messages

SIZE_EXCEEDED: BGP is unable to send an update message as the message is too large (%u of %d bytes)

Severity: Warning

Explanation: A BGP update message was generated which is too large to send. BGP limits the maximum message size. If BGP generates an update message that exceeds this maximum message size, then the update message is not sent as the peer would reject it. This occurs when the length of the path attributes for one or more routes is near to or exceeds the maximum message size.

Recommended Action: Check to see if any routes have any large attributes. A large ASPATH could indicate a ASPATH loop has formed. A router could also be attaching large unknown transitive attributes. Take steps to reduce the attribute length for affected routes.

2.88 MGMTSECURITY Messages

SSL_CERT_CLOSE_TO_EXPIRY: SSL profile '%s' - %s '%s' will expire in %d %s.

Severity: Warning

Explanation: The SSL profile uses a certificate that will expire in the near future. This warning was logged due to configurations made in 'management security' mode, using 'ssl monitor expiry ...' commands.

Recommended Action: The SSL certificate should be renewed as soon as possible. Check 'show management security ssl profile' to list these warning for all certificates in all profiles.

UNSUPPORTED_SECRET_PROFILE: %s configured to use shared-secret profile %s that has an unsupported secret

Severity: Error

Explanation: The assigned shared-secret profile has a secret with a field in a format that is not supported by the agent that is configured to use it. BFD only supports shared-secret profiles where all secrets have numeric IDs in the range 0-255. BGP only supports shared-secret profiles where each secret has a numeric ID in the range 0-255 and the receive and transmit lifetimes are identical to one another. Macsec only supports shared-secret profiles where all secrets have hex IDs representing up to 64 octets. IS-IS only supports shared-secret profiles where each secret has a numeric ID in the range 0-65535 and the transmit lifetime should be within the range of the receive lifetime.

Recommended Action: Fix the shared-secret profile or assign a shared-secret profile that supports the feature

2.89 MIRRORING Messages

ACL_FWD_DROP_NOT_SUPPORTED: ACL not supported on the forwarding drop destination of session %s

Severity: Warning

Explanation: Forwarding drop mirroring sessions do not support ACLs. ACL will be ignored.

Recommended Action: No action is required – this message is for information only.

ACL_HW_RESOURCE_FULL: Hardware resources are insufficient to program all mirror ACLs

Severity: Error

Explanation: The switch is unable to program all ACLs due to insufficient hardware resources.

Recommended Action: Reconfigure your ACLs to reduce the size and/or complexity of the ACL.

DEFAULT_GRE_KEY_OTHER_SESSIONS: Default header key (0x%s) will be applied to existing GRE mirroring sessions without a configured key.

Severity: Warning

Explanation: The default GRE header key will be applied to existing GRE tunnel mirroring sessions which have no configured key. This is because session %s has been configured with a GRE header key value.

Recommended Action: No action is required – this message is for information only.

DEFAULT_GRE_KEY_THIS_SESSION: Default header key (0x%s) will be applied to GRE mirroring session %s.

Severity: Warning

Explanation: Since there are other GRE tunnel mirroring sessions configured with the header key field, this session will contain a default GRE header key value.

Recommended Action: No action is required – this message is for information only.

EGRESS_ACL_SESSION_LIMIT_EXCEEDED: ACL based mirroring for monitor session %s configured in egress ACL %s is inactive, because it exceeds the maximum number of supported egress ACL mirroring sessions %d.

Severity: Error

Explanation: Additional egress ACL or congestion mirroring configuration will not be programmed in hardware while the hardware limit is exceeded.

Recommended Action: Reduce the number of configured monitor sessions included in egress ACLs or monitor sessions for congestion mirroring.

EGRESS_ACL_SESSION_NORMAL: ACL based mirroring for monitor session %s configured in egress ACL %s is active.

Severity: Error

Explanation: The switch was able to program the monitor session configured in the egress ACL.

Recommended Action: No action is required – this message is for information only.

EGRESS_HARDWARE_RESOURCE_LIMIT_EXCEEDED: Egress mirroring for monitor session %s configured for congestion mirroring is inactive because it exceeds the maximum number of %d supported egress ACL or congestion mirroring sessions.

Severity: Error

Explanation: Additional egress ACL or congestion mirroring configuration will not be programmed in hardware while the hardware limit is exceeded.

Recommended Action: Reduce the number of configured monitor sessions included in egress ACLs or monitor sessions for congestion mirroring.

EGRESS_HARDWARE_RESOURCE_NORMAL: Egress mirroring for monitor session %s configured for congestion mirroring is active.

Severity: Error

Explanation: The switch was able to program the monitor session configured for congestion mirroring.

Recommended Action: No action is required – this message is for information only.

GRE_KEY_REMOVED_ALL_SESSIONS: Header key will be removed from all GRE mirroring sessions.

Severity: Warning

Explanation: The GRE header key field will be removed from all GRE tunnel mirroring sessions. This is because all other sessions only contain the default GRE header key value.

Recommended Action: No action is required – this message is for information only.

NOSESSIONGROUPS: Insufficient hardware resources to allocate mirror session %s. The current limit on the number of mirror sessions is %d.

Severity: Warning

Explanation: It is not possible to program the mirror session in hardware due to lack of hardware resources.

Recommended Action: Use fewer mirror sessions.

SESSION_LIMIT_EXCEEDED: Monitor session %s is inactive, because it exceeds the maximum number of supported monitor sessions %d

Severity: Warning

Explanation: When the maximum number of supported monitor sessions is exceeded, newly created monitor sessions are not programmed into hardware.

Recommended Action: Reduce the number of configured monitor sessions.

TIMESTAMP_WITH_TRUNCATE_NOTSUPPORTED: Timestamping on interface %s (%s) does not work with truncation configured on mirror session %s.

Severity: Warning

Explanation: The truncation of the mirrored packet will cause the timestamp to be lost.

Recommended Action: Disable truncation on mirror session.

TRUNCATION_NOT_SUPPORTED: Truncation is not supported on monitor session %s's source ports that are on forwarding chip %s. %s

Severity: Warning

Explanation: Truncation in monitor sessions is not supported on this forwarding chip.

Recommended Action: No action is required – this message is for information only.

TX_DIR_SESSION_LIMIT_EXCEEDED: TX mirroring for monitor session %s is inactive, because it exceeds the maximum number of supported TX mirroring sessions %d.

Severity: Error

Explanation: When the maximum number of supported TX mirroring sessions is exceeded, TX mirroring config in newly created monitor sessions is not programmed into hardware.

Recommended Action: Reduce the number of configured monitor sessions with tx source interface, or monitor sessions included in egress ACLs or monitor sessions for congestion mirroring.

2.90 MKA Messages

CA_CREATED: Connectivity Association for CKN %s created on interface %s

Severity: Info

Explanation: CAK-CKN is configured on the interface for security relationship with other peers

Recommended Action: No action is required – this message is for information only.

FALLBACK_KEY_IN_USE: Configured fallback key %s currently in use on interface %s

Severity: Warning

Explanation: The fallback key is the operational key on the interface. This could indicate a problem with the configured primary key.

Recommended Action: Check the primary key configuration.

INTERFACE_NOT_READY: Interface %s not ready for new SAK installation. Ending MKA suspension on this port forcefully

Severity: Error

Explanation: Initialization of platform MACsec agents did not complete even after maximum suspension timeout. Restart platform MACsec agents or flap the interfaces.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

KEY_IN_USE: Configured key %s currently in use on interface %s

Severity: Notice

Explanation: Configured primary key is the operational key on the interface.

Recommended Action: No action is required – this message is for information only.

PARTIAL_KEY_WITH_FIPS: Partial CAK/CKN (ckn : %s) in use on interface %s when FIPS restrictions enabled.

Severity: Warning

Explanation: Partial CAK/CKN are not advised to use when FIPS restrictions enabled.

Recommended Action: Configure full length CAK/CKN

SAK_ACTIVATED: Activated SAK with key id ending in %s:%s on interface %s

Severity: Info

Explanation: SAK activated, all data packets henceforth will be encrypted with this SAK

Recommended Action: No action is required – this message is for information only.

SAK_CREATED: New SAK created with key id ending in %s:%s on interface %s

Severity: Info

Explanation: New Secure Association established. Reasons could be : Rekey Period Expiry, New KeyServer or LLPN Exhaustion

Recommended Action: No action is required – this message is for information only.

SAK_IGNORED: New SAK received with key id ending with %s:%s on interface %s is ignored

Severity: Error

Explanation: SAK can't be programmed as it is not supported

Recommended Action: Check the key server priority configuration in the mac security profile or check the offset confidentiality field in the distributed SAK

SESSION_ESTABLISHED: MKA session established with peer SCI %s::%s and CKN %s on interface %s

Severity: Info

Explanation: Peer having this SCI added to live peer list

Recommended Action: No action is required – this message is for information only.

SESSION_FAILURE: MKA %s session failure due to %s on interface %s configured with profile %s%s

Severity: Error

Explanation: MKA session failure could be due to mismatching parameters or invalid parameter set received in the packet

Recommended Action: Reconfigure mac security profile with same CAK,CKN and cipher suite as peer

SESSION_REKEY_PERIOD_ADJUSTED: Configured session re-key period adjusted to minimum permissible value of %f seconds

Severity: Notice

Explanation: Configured session re-key period is less than the configured MKA lifetime value.

Recommended Action: No action is required – this message is for information only.

STATE_CHG: MKA using key %s %s on interface %s

Severity: Notice

Explanation: Macsec key agreement protocol state changed on the interface

Recommended Action: No action is required – this message is for information only.

UNPROTECTED_TRAFFIC: MACSec protection is disabled on interface %s. Traffic is %s

Severity: Warning

Explanation: Traffic is unprotected on the interface. This may indicate a problem with configured primary and fallback keys.

Recommended Action: Check primary and fallback key configuration

2.91 MLAG Messages

DUAL_PRIMARY: MLAG dual-primary condition is %s

Severity: Warning

Explanation: Both MLAG peers might be in primary due to peer link failure. When peer-link comes back, the condition will be resolved. If dual-primary detection is enabled MLAG may detect this condition too.

Recommended Action: Check the MLAG peer link for possible connectivity problems.

DUAL_PRIMARY_HEARTBEAT_DOWN: MLAG is not receiving UDP heartbeats from the configured heartbeat peer %s.

Severity: Error

Explanation: The configured heartbeat address is not receiving heartbeat packets.

Recommended Action: Check on the heartbeat address connection

INTF_ACTIVE: Local interface %s and peer interface %s are link up. MLAG %s is active.

Severity: Info

Explanation: Both local and peer interfaces assigned to an MLAG are link up.

Recommended Action: No action is required – this message is for information only.

INTF_ESTABLISHED: Interface %s is in MLAG %s with peer interface %s.

Severity: Info

Explanation: Both peers added an enabled local interface to the same MLAG.

Recommended Action: No action is required – this message is for information only.

INTF_INACTIVE_LOCAL: Local interface %s is link down. MLAG %s is inactive.

Severity: Warning

Explanation: The local interface that is assigned to an MLAG is link down. The peer must handle all of the traffic on that link until the MLAG is active.

Recommended Action: Ensure that the local interface comes up.

INTF_INACTIVE_PEER: Interface %s is link down on the MLAG peer. MLAG %s is inactive.

Severity: Warning

Explanation: The peer interface that is assigned to an MLAG is down. This chassis must handle all of the traffic on the link until the MLAG is active.

Recommended Action: Ensure that the peer interface comes up.

INTF_INACTIVE_PEER_LINK_DOWN: The MLAG peer is down. MLAG %s became inactive.

Severity: Warning

Explanation: This chassis must handle all of the traffic on the link until the MLAG peer is up.

Recommended Action: Ensure that the MLAG peer resumes operation.

INTF_UNESTABLISHED: Interface %s is no longer in MLAG %s.

Severity: Info

Explanation: A local interface is no longer part of an MLAG. Either it or its counterpart on the peer was either disabled or removed from the MLAG.

Recommended Action: No action is required – this message is for information only.

PEER_ACL_STAGE_TIMEOUT: Egress filter installation stage on %s has timed out

Severity: Warning

Explanation: The specified Port-Channel is now active. This may cause a network loop or double-delivery, as the state of the peer's egress filter is unknown.

Recommended Action: No action is required – this message is for information only.

PEER_EVENT_CONNECTION_CLOSED: The TCP session with the MLAG peer was closed.

Severity: Warning

Explanation: The TCP connection between the MLAG peers was broken.

Recommended Action: Wait until MLAG reconnects with the peer or enters the inactive state.

PEER_EVENT_RECONNECT: The connection with MLAG peer %s was reestablished. MLAG state remains %s.

Severity: Warning

Explanation: MLAG successfully renegotiated with its peer.

Recommended Action: No action is required – this message is for information only.

PEER_EVENT_STP_STABLE_TIMEOUT: MLAG did not receive an STP stability response from the peer %s

Severity: Warning

Explanation: An STP stability request was sent to the peer but no response was received during the expected duration.

Recommended Action: Check the health of both Mlag agents. Test and troubleshoot IP connectivity (e.g., ping the configured MLAG peer-address).

PEER_HEARTBEAT_RESUMED: MLAG resumed receiving %s heartbeats from the peer %s.

Severity: Error

Explanation: Heartbeat messages are now being received from the peer after timeout.

Recommended Action: No action is required – this message is for information only.

PEER_HEARTBEAT_TIMEOUT: MLAG stopped receiving %s heartbeats from the peer %s.

Severity: Error

Explanation: No heartbeat messages were received from the peer for longer than the configured timeout.

Recommended Action: Check the health of both MLAG agents. Test and troubleshoot IP connectivity between the two peers (e.g., ping the configured MLAG peer-address).

PEER_MOUNT_FAILURE: MLAG is unable to mount state from peer %s. MLAG state remains %s.

Severity: Error

Explanation: MLAG recovery period for a broken TCP connection expired. Mlag agent is not able to mount its peer state.

Recommended Action: Check the health of both Mlag agents. Test and troubleshoot IP connectivity (e.g., ping the configured MLAG peer-address).

RELOAD_DELAY_ENDING: Mlag reload-delay period %s will end in %s seconds

Severity: Info

Explanation: Non peer-link interfaces will be enabled once reload-delay period is over

Recommended Action: No action is required – this message is for information only.

STATE_INACTIVE_CONNECTION_CLOSED: MLAG is inactive with peer %s because the TCP session was closed

Severity: Error

Explanation: The TCP connection between the MLAG processes was broken.

Recommended Action: Check the health of both Mlag agents. Test and troubleshoot IP connectivity (e.g., ping the configured MLAG peer-address).

STATE_INACTIVE_FWD_AGENT_RESTART: MLAG is inactive with peer %s because the forwarding agent restarted

Severity: Info

Explanation: The forwarding agent restarted, causing the peer relationship to end.

Recommended Action: No action is required – this message is for information only.

STATE_INACTIVE_HW_NOT_READY: MLAG is inactive because the hardware is not ready.

Severity: Error

Explanation: Hardware resources needed for MLAG functionality are not ready.

Recommended Action: Check the forwarding agent logs to find the details of the resources MLAG is waiting for.

STATE_INACTIVE_LOCAL_CONFIG: MLAG is inactive with peer %s because the MLAG configuration changed

Severity: Info

Explanation: The MLAG configuration changed, causing the peer relationship to end.

Recommended Action: No action is required – this message is for information only.

STATE_INACTIVE_LOCAL_INTERFACE_DOWN: MLAG is inactive because the local interface (%s) is down.

Severity: Error

Explanation: The configured local VLAN interface is down. The MLAG process is unable to accept connections from its peer.

Recommended Action: Bring up the local interface

STATE_INACTIVE_PEER_CONFIG: MLAG is inactive with peer %s because the peer's MLAG configuration changed

Severity: Info

Explanation: The MLAG configuration of the peer changed, causing the peer relationship to end.

Recommended Action: No action is required – this message is for information only.

STATE_INACTIVE_PEER_LINK_NOT_PRESENT: MLAG is inactive because the peer link (%s) connected to peer %s is not present

Severity: Error

Explanation: The configured peer link is not present. MLAG must become inactive because it cannot communicate with the peer.

Recommended Action: Check the transceivers and linecards containing the peer link(s).

STATE_PRIMARY: MLAG is active as primary with peer %s and peer link %s

Severity: Info

Explanation: MLAG protocol negotiation is complete, with this chassis assuming the primary role.

Recommended Action: No action is required – this message is for information only.

STATE_PRIMARY_PEER_LINK_DOWN: MLAG failed over to (or remained at) the primary state because the peer link (%s) connected to peer %s is down

Severity: Warning

Explanation: The configured peer link is down; MLAG assumed the peer is dead and is now primary.

Recommended Action: Check on the health of the other MLAG chassis

STATE_PRIMARY_PEER_LINK_UP: MLAG connection restored with peer %s after the peer link (%s) came back up. MLAG will retain the primary role

Severity: Warning

Explanation: The configured peer link is up; MLAG renegotiated with the peer and will remain primary.

Recommended Action: No action is required – this message is for information only.

STATE_SECONDARY: MLAG is active as secondary with peer %s and peer link %s

Severity: Info

Explanation: MLAG protocol negotiation is complete, with this chassis assuming the secondary role.

Recommended Action: No action is required – this message is for information only.

STATE_VERSION_INCOMPATIBLE: MLAG will not negotiate with peer %s due to a version incompatibility

Severity: Error

Explanation: The current software image is incompatible with the peer's software image. MLAG protocol negotiation will be unsuccessful.

Recommended Action: Load a compatible software image on one of the peers. Refer to the release notes for the list of compatible images.

TCAM_HW_RESOURCE_FULL: Egress TCAM resources are insufficient to program MLAG peer link %s

Severity: Error

Explanation: The switch is unable to program MLAG peer link configuration due to insufficient Egress TCAM resources.

Recommended Action: Reconfigure your Egress ACLs to free up some resources for MLAG.

TCAM_HW_RESOURCE_RECOVERED: MLAG peer link %s is programmed.

Severity: Error

Explanation: The switch was able to apply MLAG peer link configuration in Egress TCAM.

Recommended Action: No action is required – this message is for information only.

2.92 MLD Messages

MESSAGE_INVALID_MULTICAST_ADDRESS: Received invalid addr %s in %s.

Severity: Warning

Explanation: It is not a multicast address.

Recommended Action: Capture the packet using tcpdump and contact support.

MESSAGE_INVALID_SOURCE: Received invalid source %s for group %s in %s

Severity: Warning

Explanation: Source is not a valid unicast address.

Recommended Action: Capture the packet using tcpdump and contact support.

QUERY_VERSION_CONFIGURED_DISCREPANCY: MLD version %d query heard on vlan %d by a querier configured to version %d.

Severity: Warning

Explanation: The switch detected an Mld query message of a different version than the version that is currently configured.

Recommended Action: Configure all queriers on the network to use the same querier version

2.93 MLDSNOOPING Messages

GROUP_LIMIT_EXCEEDED: MLD group limit of %d groups exceeded in VLAN %d

Severity: Warning

Explanation: The switch detected that the number of MLD groups joined by hosts in the specified VLAN exceeds the configured number allowed for this VLAN.

Recommended Action: Increase the max-groups limit for the VLAN or configure the hosts in the VLAN to join fewer groups.

GROUP_LIMIT_NO_LONGER_EXCEEDED: MLD group limit of %d groups no longer exceeded in VLAN %d

Severity: Warning

Explanation: The switch detected that the number of MLD groups joined by hosts in the specified VLAN no longer exceeds the VLAN's configured max-groups limit.

Recommended Action: No action is required – this message is for information only.

GROUP_LIMIT_NO_LONGER_EXCEEDED_NO_LIMIT: MLD group limit no longer exceeded in VLAN %d

Severity: Warning

Explanation: The switch detected that the number of MLD groups joined by hosts in the specified VLAN no longer exceeds the VLAN's previously configured max-groups limit. Currently no limit is configured.

Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: Hardware resources are insufficient to program all MLD Snooping groups%s.

Severity: Error

Explanation: The switch is unable to program all MLD Snooping groups because the MLD Snooping groups exceed the available hardware resources.

Recommended Action: To solve this issue, reconfigure the network to reduce the number of MLD Snooping groups. When the number of groups reduces, the switch automatically programs any unprogrammed groups in hardware.

HW_RESOURCE_NORMAL: All IPv6 multicast routes are programmed in hardware.

Severity: Error

Explanation: The switch was able to program all the MLD Snooping groups in hardware and normal hardware routing has resumed.

Recommended Action: No action is required – this message is for information only.

NO_MLD_QUERIER: No MLD querier detected in VLAN %d. MLD report received from %d on %d for %d

Severity: Info

Explanation: The switch did not detect an MLD querier running in the specified VLAN. This will cause multicast traffic to be flooded to all members of the VLAN.

Recommended Action: Configure an MLD querier for the specified VLAN.

2.94 MMODE Messages

INTF_PROFILE_CHANGE: For interface %s, interface profile changed to %s (was %s)

Severity: Notice

Explanation: A different interface profile was picked based on precedence because the same same interface was part of multiple units.

Recommended Action: No action is required – this message is for information only.

MAINT_OP_WARNING: Unit config is deleted for unit %s. The unit is still undergoing maintenance operation.

Severity: Warning

Explanation: The maintenance status for the unit would be lost.

Recommended Action: Please check the configuration.

MAINT_STAGE_PROGRESS: Stage %s %s for unit %s

Severity: Info

Explanation: Stage Progression logs

Recommended Action: No action is required – this message is for information only.

MAINT_UNIT_STATE_CHANGE: Maintenance unit state changed for unit %s. Old State %s, New State %s

Severity: Notice

Explanation: Maintenance unit state change log

Recommended Action: No action is required – this message is for information only.

2.95 MPLS Messages

LABEL_EXHAUSTION: %s ran out of MPLS labels in the '%s' range

Severity: Error

Explanation: This is caused by a request for more labels and the range is fully allocated.

Recommended Action: Please increase the configured size of the label range and contact your support representative if the problem persists.

LABEL_USE_NORMAL: %s MPLS label usage in the '%s' range is back to normal

Severity: Error

Explanation: This is caused by an MPLS label range entering a normal range after having been exhausted.

Recommended Action: No action is required – this message is for information only.

2.96 MPLSUTILS Messages

RX_ERROR: %s

Severity: Error

Explanation: MplsUtils listener hit an error during operation.

Recommended Action: No action is required – this message is for information only.

2.97 MROUTE Messages

ACTIVITY_POLLING_INTERVAL_NOT_SUPPORTED: The value is set to the minimum supported value of %ds instead of the configured %ds

Severity: Warning

Explanation: The configured value is less than minimum supported activity polling interval, activity polling interval is set to the minimum supported value.

Recommended Action: No action is required – this message is for information only.

FASTDROP_LIMIT_EXCEEDED: This device has reached the software limit for fastdrop entries in VRF %s

Severity: Warning

Explanation: Increase the number of allowed fastdrop entries or some rpf failures will continue coming to cpu.

Recommended Action: No action is required – this message is for information only.

FASTDROP_LIMIT_NO_LONGER_EXCEEDED: This device is no longer at the software limit for fastdrop entries in VRF %s.

Severity: Warning

Explanation: Rpf failures will install fastdrop entries and no longer come to cpu.

Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: Hardware resources are insufficient to program all multicast routes%s.

Severity: Error

Explanation: The switch is unable to program all multicast routes because the multicast routing table exceeds available hardware resources

Recommended Action: To solve this issue, reconfigure the network to reduce the size of the multicast routing table. When the routing table size reduces, the switch automatically programs any unprogrammed multicast routes in hardware.

HW_RESOURCE_NORMAL: All multicast routes are programmed in hardware.

Severity: Error

Explanation: The switch was able to program all the multicast routes in hardware and normal hardware routing has resumed.

Recommended Action: No action is required – this message is for information only.

2.98 MRP Messages

ERROR: %s

Severity: Info

Explanation: MRP error occurred

Recommended Action: No action is required – this message is for information only.

JOIN: MRP Join received on %s, attrType: %s, key: %s, state: %s, event: %s

Severity: Info

Explanation: MRP Join was received on an interface

Recommended Action: No action is required – this message is for information only.

LV: MRP Lv %s on %s, attrType: %s, key: %s, state: %s, event: %s

Severity: Info

Explanation: MRP Lv was handled on an interface

Recommended Action: No action is required – this message is for information only.

2.99 MSDP Messages

GROUP_LIMIT: SA from peer %a, RP %a for (%a, %a) exceeded group-limit of %d for source prefix %s

Severity: Warning

Explanation: Due to group-limit configuration, a received SA was rejected i.e. not stored in the SA cache.

Recommended Action: No action is required – this message is for information only.

MAX_SA_CACHE_SIZE: SA from peer %a, RP %a for (%a, %a) exceeded limit %d on max size of SA cache

Severity: Warning

Explanation: Due to limits on the total size of the SA cache, a received SA was rejected i.e. not stored in the cache.

Recommended Action: Deconfiguring a peer will cause that peer's SAs to age out of the cache, making room for more SAs.

PEER_CONNECTED: MSDP connection with peer %a is up.

Severity: Info

Explanation: MSDP peering with the peer is successful, the peers will now exchange multicast sources.

Recommended Action: No action is required – this message is for information only.

PEER_DISCONNECTED: MSDP connection with peer %a is down.

Severity: Info

Explanation: MSDP peering with the peer is unsuccessful, the peers will not exchange multicast sources.

Recommended Action: No action is required – this message is for information only.

PEER_SETUP_ERROR: %s while trying to set up MSDP connection with peer %a.

Severity: Warning

Explanation: A socket error occurred while attempting to connect with this peer.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SA_LIMIT: SA from peer %a, RP %a for (%a, %a) exceeded sa-limit of %d

Severity: Warning

Explanation: Due to sa-limit configuration, a received SA was rejected i.e. not stored in the SA cache.

Recommended Action: No action is required – this message is for information only.

SETUP_ERROR: Error '%s' occurred while trying to set up socket to listen for connections from MSDP peers.

Severity: Warning

Explanation: A socket error occurred while attempting to start listening for MSDP peers. The Msdp agent will restart in order to recover from this error.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

UNKNOWN_PACKET_TYPE: An unknown MSDP packet (type: %d) received and discarded.

Severity: Warning

Explanation: A MSDP packet type that is not handled by the implementation was received.

Recommended Action: No action is required – this message is for information only.

2.100 MSRP Messages

BW_ALLOC_FAIL: Bandwidth %d kbps allocation failed for listener on %s and streamId 0x%s

Severity: Info

Explanation: MSRP Bandwidth could not be allocated for a listener

Recommended Action: No action is required – this message is for information only.

BW_ALLOC_SUCCESS: Bandwidth %d kbps successfully allocated for listener on %s and streamId 0x%s

Severity: Info

Explanation: MSRP Bandwidth was allocated for a listener

Recommended Action: No action is required – this message is for information only.

BW_DEALLOC: Bandwidth %d kbps deallocated for listener on %s and streamId 0x%s

Severity: Info

Explanation: MSRP Bandwidth was deallocated for a listener

Recommended Action: No action is required – this message is for information only.

DOMAIN_JOIN: Domain Join %s on %s: Class: %d, Priority: %d, SrVID: %d

Severity: Info

Explanation: MSRP Domain message was transmitted/received on an interface

Recommended Action: No action is required – this message is for information only.

DOMAIN_LV: Domain Lv %s on %s: Class: %d, Priority: %d, SrVID: %d

Severity: Info

Explanation: MSRP Domain message was transmitted/received on an interface

Recommended Action: No action is required – this message is for information only.

ERROR: %s

Severity: Info

Explanation: MSRP error occurred

Recommended Action: No action is required – this message is for information only.

LISTENER_JOIN: Listener Join %s on %s: StreamId 0x%s, state %d

Severity: Info

Explanation: MSRP Listener message was transmitted/received on an interface

Recommended Action: No action is required – this message is for information only.

LISTENER_LV: Listener Lv %s on %s: StreamId 0x%s, state %d

Severity: Info

Explanation: MSRP Listener message was transmitted/received on an interface

Recommended Action: No action is required – this message is for information only.

NOTIF: %s

Severity: Info

Explanation: MSRP notification

Recommended Action: No action is required – this message is for information only.

SR_CLASS_TRANSITION: MSRP %d state on %s changed from %d to %d

Severity: Info

Explanation: MSRP SR Class state transition occurred on an interface

Recommended Action: No action is required – this message is for information only.

TALKER_ADV_JOIN: TalkerAdv Join %s on %s: StreamId 0x%s, failureCode %d

Severity: Info

Explanation: MSRP Talker Advertise message was transmitted/received on an interface

Recommended Action: No action is required – this message is for information only.

TALKER_ADV_LV: TalkerAdv Lv %s on %s: StreamId 0x%s

Severity: Info

Explanation: MSRP Talker Advertise message was transmitted/received on an interface

Recommended Action: No action is required – this message is for information only.

TALKER_FAIL_JOIN: TalkerFail Join %s on %s: StreamId 0x%s, failureCode %d, failedBridgeId 0x%s

Severity: Info

Explanation: MSRP Talker Fail message was transmitted/received on an interface

Recommended Action: No action is required – this message is for information only.

TALKER_FAIL_LV: TalkerFail Lv %s on %s: StreamId 0x%s, failureCode %d

Severity: Info

Explanation: MSRP Talker Fail message was transmitted/received on an interface

Recommended Action: No action is required – this message is for information only.

2.101 MULTIHOMING Messages

TCAM_RESOURCE_FULL: TCAM resource for EVPN Multi-Homing exhausted

Severity: Error

Explanation: TCAM is full and allocation of new entry has failed.

Recommended Action: Remove unused ACLs to free up TCAM usage and/or reconfigure EVPN usage to reduce number of interfaces and VLANs used

TCAM_RESOURCE_RECOVERED: TCAM resource for EVPN Multi-Homing recovered

Severity: Notice

Explanation: TCAM is no longer full and new entries can be allocated

Recommended Action: No action is required – this message is for information only.

2.102 MVRP Messages

ERROR: %s

Severity: Info

Explanation: MVRP error occurred

Recommended Action: Please check if the interface is a trunk port and vlan is configured in the trunk allowed VLAN list.

NOTIF: %s

Severity: Info

Explanation: MVRP notification

Recommended Action: No action is required – this message is for information only.

VLAN_JOIN: VLAN Join for %d %s on %s

Severity: Info

Explanation: MVRP Vlan Join message was transmitted/received on an interface

Recommended Action: No action is required – this message is for information only.

VLAN_LV: VLAN Leave for %d %s on %s

Severity: Info

Explanation: MVRP Vlan Leave message was transmitted/received on an interface

Recommended Action: No action is required – this message is for information only.

VLAN_NEW: VLAN New for %d %s on %s

Severity: Info

Explanation: MVRP Vlan New message was transmitted/received on an interface

Recommended Action: No action is required – this message is for information only.

2.103 NAC Messages

SWITCH_DOWN: NAC switch is down.

Severity: Warning

Explanation: Traffic won't flow through the interfaces since the NAC switch is down.

Recommended Action: No action is required – this message is for information only.

SWITCH_UP: NAC switch is up.

Severity: Warning

Explanation: Traffic can begin to flow through the interfaces since the NAC switch is up.

Recommended Action: No action is required – this message is for information only.

2.104 NAT Messages

ACCESS_LIST_FILTER_INVALID_MULTICAST_ADDRESS: NAT access list %s configured on interface %s has an invalid source address multicast filter

Severity: Error

Explanation: The switch is unable to program this NAT rule.

Recommended Action: Reconfigure your access list to remove the source address multicast filter.

ACCESS_LIST_INVALID_UNICAST_AND_MULTICAST_FILTERS: NAT access list %s configured on interface %s has both unicast and multicast filters

Severity: Error

Explanation: The switch is unable to program this NAT rule.

Recommended Action: Reconfigure your access list to remove the unicast or multicast filters. If both unicast and multicast filters are required, use separate access lists for each type.

ACL_FILTER_INVALID_ACTION: NAT ACL %s configured on interface %s has invalid action (%s)

Severity: Error

Explanation: The switch is unable to program this NAT rule.

Recommended Action: Reconfigure your ACL to use permit action.

ACL_FILTER_INVALID_DESTINATION_ADDRESS: NAT ACL %s configured on interface %s has invalid destination address match (%s)

Severity: Error

Explanation: The switch is unable to program this NAT rule.

Recommended Action: Reconfigure your ACL to remove the destination address match.

ACL_FILTER_INVALID_PROTOCOL: NAT ACL %s configured on interface %s has protocol match

Severity: Error

Explanation: The switch is unable to program this NAT rule.

Recommended Action: Reconfigure your ACL to remove the protocol match.

ACL_FILTER_INVALID_SOURCE_ADDRESS: NAT ACL %s configured on interface %s has invalid source address match (%s)

Severity: Error

Explanation: The switch is unable to program this NAT rule.

Recommended Action: Reconfigure your ACL to remove the source address match.

CONNLIMIT_EXCEEDED: The number of active NAT connections has exceeded its limit. There are too many active NAT connections.

Severity: Warning

Explanation: No new connections can be made until existing connections are below low mark limit.

Recommended Action: Configure 'ip nat translation max-entries' with higher value if more concurrent connections need to be supported

CONNLIMIT_NORMAL: The number of active NAT connections has dropped below its low mark limit.

Severity: Warning

Explanation: The number of active NAT connections has dropped below its low mark limit and new NAT connections can be made

Recommended Action: No action is required – this message is for information only.

DYNAMIC_CONNECTION_LIMIT_EXCEEDED: Reached the maximum number of dynamic rules configurable in the system

Severity: Error

Explanation: The switch is unable to program more dynamic NAT rules in the kernel.

Recommended Action: Reconfigure your NAT configuration to use fewer rules.

DYNAMIC_POOL_ALLOCATION_THRESHOLD: The active number of dynamic NAT entries in the pool %s has reached the configured threshold (%d%%). Pool size: %d, current allocation: %d

Severity: Info

Explanation: The NAT dynamic pool threshold is configured and has been reached.

Recommended Action: Configure the NAT dynamic pool threshold to an higher value, if required

EVENT_ADD: Added NAT entry: natIntf: %s; original tuple: %s; translated tuple: %s: %s; flags: %d

Severity: Info

Explanation: The entry has been programmed in the table.

Recommended Action: No action is required – this message is for information only.

EVENT_DEL: Deleted NAT entry: natIntf: %s; original tuple: %s; translated tuple: %s: %s; flags: %d

Severity: Info

Explanation: The entry has been removed from the table.

Recommended Action: No action is required – this message is for information only.

FC_CONNLIMIT_EXCEEDED: The number of active full-cone NAT connections has exceeded its limit. There are too many active full-cone NAT connections.

Severity: Warning

Explanation: No new full-cone connections can be made until existing connections are below low mark limit.

Recommended Action: Configure 'ip nat translation max-entries full-cone' with higher value if more concurrent connections need to be supported

FC_CONNLIMIT_NORMAL: The number of active full-cone NAT connections has dropped below its low mark limit.

Severity: Warning

Explanation: The number of active full-cone NAT connections has dropped below its low mark limit and new full-cone NAT connections can be made

Recommended Action: No action is required – this message is for information only.

HOST_CONNLIMIT_EXCEEDED: The number of active NAT connections for host %s in VRF %s has exceeded its limit. There are too many active NAT connections.

Severity: Warning

Explanation: No new NAT connections can be made until existing connections are below low mark limit.

Recommended Action: Configure 'ip nat translation max-entries' with higher value for this host if more concurrent connections need to be supported

HOST_CONNLIMIT_NORMAL: The number of active NAT connections for host %s in VRF %s has dropped below its low mark limit.

Severity: Warning

Explanation: The number of active NAT connections has dropped below its low mark limit and new NAT connections can be made

Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: Hardware resources are insufficient to program all NAT rules

Severity: Error

Explanation: The switch is unable to program all NAT rules due to insufficient hardware resources.

Recommended Action: Reconfigure your NAT rules to reduce the size and/or complexity of the NAT rules.

HW_RESOURCE_NORMAL: All NAT rules are programmed in hardware

Severity: Info

Explanation: The switch was able to program all the NAT rules in the NAT table

Recommended Action: No action is required – this message is for information only.

INVALID_PORT_ONLY_CONFIG: Port only pool %s has been used in a NAT rule with unsupported options. Packets may be dropped.

Severity: Error

Explanation: Port only pool has been configured in a NAT rule with unsupported options

Recommended Action: Remove the unsupported options from the NAT rules using port only pool.

OVERLAPPED_POOLRANGE: NAT Pool range (%s, %s) in pool '%s' overlaps with range(%s, %s) in pool: '%s'

Severity: Error

Explanation: The behavior with overlapping pool range is undefined

Recommended Action: Reconfigure pool with a different pool range

PEER_ACL_DENIED: Peer connTuple %s is denied by local acl %s

Severity: Error

Explanation: Peer connTuple is not allowed by the our own acl configured.

Recommended Action: Peer and local are expected to have the same NAT configuration.

PEER_CONNTUPLE_TRANSLATION_CONFLICT: Peer translation %s conflicts with local translation %s for %s , deleting %s entry

Severity: Error

Explanation: Peer and local have chosen different translations for the same connTuple

Recommended Action: Peer and local are expected to have the same NAT translations.

PEER_DYNAMIC_CONFIG_MISMATCH: Peer configuration for access list %s is different than the local one

Severity: Error

Explanation: Peer NAT translation is not allowed because of the configuration mismatch.

Recommended Action: The peer and local switches are expected to have the same NAT configuration.

PEER_ERROR: Unexpected error %s (%d) encountered while programming the Kernel

Severity: Error

Explanation: Unexpected error encountered, entry will be removed

Recommended Action: Unexpected error during kernel entry programming

PEER_FULL_CONE_TRANSLATION_CONFLICT: Possible conflict while synchronising full-cone flow %s

Severity: Error

Explanation: Peer and local have chosen different translations for the same full-cone flow

Recommended Action: Peer and local are expected to have the same NAT translations.

PEER_INT_STATUS_MISSING: Peer interface status %s is missing

Severity: Error

Explanation: Peer interface status is expected for the connection tuple to take effect

Recommended Action: Peer and local are expected to have the same NAT configuration.

PEER_POOL_DENIED: Peer connTuple %s is denied by local pool %s

Severity: Error

Explanation: Peer connTuple is not allowed by the our own pool configured.

Recommended Action: Peer and local are expected to have the same NAT configuration.

PEER_PORT_RANGE_CONFLICT: Overlapping layer4 port ranges for dynamic Nat, range: %s, peer range: %s

Severity: Error

Explanation: Conflict in local and synchronized layer 4 port ranges

Recommended Action: Conflict in local and synchronized layer 4 port ranges

PEER_TRANSLATION_CONFLICT: Peer entry %s and local entry %s conflict for translation %s , deleting %s entry

Severity: Error

Explanation: Peer and local have chosen the same translations for different connTuple

Recommended Action: Peer and local are expected to have the same NAT translations.

PEER_VIP_CONFLICT: Peer VIP %s conflict

Severity: Error

Explanation: Peer and local have chosen same Virtual IP for different connTuples

Recommended Action: Peer and local are expected to have the same NAT translations.

PEER_VRF_MISMATCH: Peer interface %s and local interface %s belong to different VRFs

Severity: Error

Explanation: Peer interface and local interface are members of different VRFs, unable to synchronize connection tuples across VRFs

Recommended Action: Configure the peer interface and the local interface to be members of the same VRF

POOL_CONNLIMIT_DROP_RULES: NAT active number of connections for pool %s has exceeded the connection limit: %d, installing iptable drop rules

Severity: Info

Explanation: Connection limit is active and has reached its limit.

Recommended Action: Configure 'ip nat translation max-entries pool' to a higher value, if required

POOL_CONNLIMIT_NO_DROP_RULES: NAT active number of connections for pool %s has reached below the connection limit low mark: %d, deleting iptable drop rules

Severity: Info

Explanation: Connection limit is active and active connections have reached low mark.

Recommended Action: Run 'show ip nat translation max-entries' to see number of active connections and limit

POOL_RANGE_LIMIT_EXCEEDED: Nat Pool '%s' used for address-only NAT has more than %d ranges configured

Severity: Error

Explanation: The switch is unable to program any address-only NAT rule that uses this pool.

Recommended Action: Reconfigure your Pool to use fewer ranges.

RULE_IF_MAX: The active number of interfaces associated with the NAT rule: '%s', has exceeded the maximum. Cannot add VLAN %d. Interface count: %d, Maximum interfaces: %d.

Severity: Error

Explanation: The maximum number of active interfaces associated with the NAT rule has been reached.

Recommended Action: Remove the NAT rule from any interface not currently in use.

SYM_CONNLIMIT_EXCEEDED: The number of active symmetric NAT connections has exceeded its limit. There are too many active symmetric NAT connections.

Severity: Warning

Explanation: No new symmetric connections can be made until existing connections are below low mark limit.

Recommended Action: Configure 'ip nat translation max-entries symmetric' with higher value if more concurrent connections need to be supported

SYM_CONNLIMIT_NORMAL: The number of active symmetric NAT connections has dropped below its low mark limit.

Severity: Warning

Explanation: The number of active symmetric NAT connections has dropped below its low mark limit and new symmetric NAT connections can be made

Recommended Action: No action is required – this message is for information only.

2.105 OPENFLOW Messages

BIND_MODE_CHANGE: OpenFlow Bind Mode changed from %s to %s

Severity: Info

Explanation: OpenFlow Bind Mode has been changed

Recommended Action: No action is required – this message is for information only.

CONTROLLER_AUX_CONNECT: Controller %s role %s auxiliary channel connected.

Severity: Info

Explanation: Controller Auxiliary connection is active

Recommended Action: No action is required – this message is for information only.

CONTROLLER_AUX_DISCONNECT: Controller %s role %s auxiliary channel disconnected.

Severity: Info

Explanation: Controller Auxiliary connection is inactive

Recommended Action: No action is required – this message is for information only.

CONTROLLER_CONNECT: Controller %s role %s connected.

Severity: Info

Explanation: Controller main connection is active

Recommended Action: No action is required – this message is for information only.

CONTROLLER_DISCONNECT: Controller %s role %s disconnected.

Severity: Info

Explanation: Controller main connection is inactive

Recommended Action: No action is required – this message is for information only.

FORWARDING_PIPELINE_CHANGE: OpenFlow Forwarding Pipeline changed from %s to %s

Severity: Info

Explanation: OpenFlow Forwarding Pipeline has been changed

Recommended Action: No action is required – this message is for information only.

TABLE_PROFILE_CHANGE: OpenFlow Table Profile changed from %s to %s

Severity: Info

Explanation: OpenFlow Table Profile has been changed

Recommended Action: No action is required – this message is for information only.

TFM_ACTION_ID_COUNT_EXCEEDED: Action ID count for table %d exceeded max count %d

Severity: Error

Explanation: Number of Action IDs per table feature exceeded max supported

Recommended Action: Check Table Features Message on controller

TFM_APPLY_ACTION_NOT_SUPPORTED: Apply Action ID %s in TFM table %d is not supported

Severity: Error

Explanation: Apply Action ID in this log is not supported

Recommended Action: Update controller code to not send this particular Apply Action ID

TFM_APPLY_SETFIELD_NOT_SUPPORTED: Apply Setfield ID %s in TFM table %d is not supported

Severity: Error

Explanation: Apply Setfield ID in this log is not supported

Recommended Action: Update controller code to not send this particular Apply Setfield ID

TFM_INSTRUCTION_ID_COUNT_EXCEEDED: Instruction ID count for table %d exceeded max count %d

Severity: Error

Explanation: Number of Instruction IDs per table feature exceeded max supported

Recommended Action: Check Table Features Message on controller

TFM_MATCH_KEY_NOT_SUPPORTED_CANDIDATE: Match key %s in TFM table %d is not supported

Severity: Error

Explanation: Match Key in this log is identified as possible key not supported

Recommended Action: Update controller code to not send this particular match key

TFM_NEXT_TABLE_ID_COUNT_EXCEEDED: Next Table ID count for table %d exceeded max count %d

Severity: Error

Explanation: Number of Next Table IDs per table feature exceeded max supported

Recommended Action: Check Table Features Message on controller

TFM_OXM_ID_COUNT_EXCEEDED: OXM ID count for table %d exceeded max count %d

Severity: Error

Explanation: Number of OXM IDs per table feature exceeded max supported

Recommended Action: Check Table Features Message on controller

TFM_OXM_KEY_INVALID: OXM ID %d in TFM message is invalid

Severity: Info

Explanation: Table Features Message contains invalid OXM ID

Recommended Action: Update controller to send valid OXM IDs

TFM_TABLE_NOT_SUPPORTED: TFM Table %d with match keys %s not supported

Severity: Error

Explanation: Table Features Message requested a table with match keys not supported by the platform

Recommended Action: Update controller code to send match keys supported by the platform

TFM_WILDCARD_NOT_SUPPORTED: Wildcard ID %s in TFM table %d is not supported

Severity: Error

Explanation: Wildcard ID in this log is not supported

Recommended Action: Update controller code to not send this particular Wildcard ID

TFM_WRITE_ACTION_NOT_SUPPORTED: Write Action ID %s in TFM table %d is not supported

Severity: Error

Explanation: Write Action ID in this log is not supported

Recommended Action: Update controller code to not send this particular Write Action ID

TFM_WRITE_SETFIELD_NOT_SUPPORTED: Write Setfield ID %s in TFM table %d is not supported

Severity: Error

Explanation: Write Setfield ID in this log is not supported

Recommended Action: Update controller code to not send this particular Write Setfield ID

2.106 OSPF Messages

ADJACENCY_ESTABLISHED: NGB %a, interface %a adjacency established.

Severity: Warning

Explanation: The switch has finished the OSPF handshaking process with a neighboring switch and now sees it as adjacent.

Recommended Action: No action is required – this message is for information only.

ADJACENCY_TEARDOWN: NGB %a, interface %a adjacency dropped: %s, state was: %s.

Severity: Warning

Explanation: The switch has removed a neighbor's adjacent status for the given reason. There are many possible causes, including invalid data received from a neighbor, a change in which neighbors are eligible for adjacency, or OSPF being explicitly disabled on the switch or its neighbors.

Recommended Action: Depending on the reason and other network conditions, this may or may not require action.

ADJACENCY_TYPE_MISMATCH: There is an adjacency type mismatch between interface %s (type %s with IP address %a) and neighbor router %a (type %s), the adjacency will not be used for routing

Severity: Warning

Explanation: Please be aware that adjacencies formed between Point-to-Point and Broadcast neighbors does not provide full OSPF functionality.

Recommended Action: Identify the two ends of the adjacency and if possible, configure the routers to be in the same OSPF interface network type.

CONVERGED: OSPF in VRF %s has converged and its routes are in FIB

Severity: Notice

Explanation: OSPF has converged after listening to updates from peers if any and is now ready to advertise best path routes to peers

Recommended Action: No action is required – this message is for information only.

DB_LINK_SUPPRESSED: Unnumbered interface %s has index %A that overlaps with numbered interface %s. Suppressing link.

Severity: Warning

Explanation: The interface index of an unnumbered interface has the same value as the IP address of another numbered point-to-point interface on this device. This would result in OSPF advertising a duplicate link. That duplicate link has been suppressed.

Recommended Action: Consider making both affected interfaces either numbered or unnumbered

MAXLSALIMIT: The max-lsa limit of %d has been reached for OSPF instance %d, shutting down for %d minutes (%d of %d)

Severity: Error

Explanation: The number of LSAs in the OSPF routing system has reached the configured limit, and the instance has been shut down. It will be re-enabled after the configured time, in the hopes that the LSA flood is over.

Recommended Action: Identify the system that is advertising excessive LSAs or raise this system's max-lsa configuration.

MAXLSALIMIT_WARNING: The max-lsa limit of %d has been reached for OSPF instance %d,

Severity: Error

Explanation: The number of LSAs in the OSPF routing system has reached the configured limit.

Recommended Action: Identify the system that is advertising excessive LSAs or raise this system's max-lsa configuration.

MAXLSARECOVER: OSPF instance %d has been re-enabled after it was shut down due to reaching the max-lsa limit

Severity: Error

Explanation: The instance is being re-enabled after the max-lsa ignore time.

Recommended Action: No action is required. The system is once again operating normally.

MAXLSASHUTDOWN: The max-lsa limit of %d has been reached for OSPF instance %d %d times, shutting down until reconfigured

Severity: Error

Explanation: The number of LSAs in the OSPF routing system has reached the configured limit too many times. OSPF has been shut down until it is manually shut down and re-enabled.

Recommended Action: Identify the system that is advertising excessive LSAs or raise this system's max-lsa configuration.

MAXLSAWARNING: Current LSA count %d is approaching configured limit %d in OSPF instance %d

Severity: Warning

Explanation: The number of LSAs in the OSPF routing system is approaching the configured limit. If it reaches the limit, the OSPF instance will shut down. Identify the system that is advertising excessive LSAs.

Recommended Action: Identify the system that is advertising excessive LSAs or raise this system's max-lsa configuration.

MINIMUM_MTU: OSPF is disabled on interface %a. The interface MTU size %d is less than the OSPF minimum MTU size %d.

Severity: Warning

Explanation: The configured interface MTU size is less than the OSPF minimum size. OSPF cannot run on an interface with an MTU size below 256

Recommended Action: Increase the MTU size to be the OSPF minimum or greater.

NETWORK_LSA_FLUSH_REMOTE: Flushing network LSA for local OSPF's IP address %A advertised by OSPF router %A

Severity: Warning

Explanation: Another OSPF router on the network is advertising a network LSA for an IP address on an interface on this switch. This can happen due to a router ID change, or a duplicate IP address in the network.

Recommended Action: If this message persists, check OSPF routers on the network for a duplicate IP address

NETWORK_LSA_REORIG: Re-originating network LSA for local's IP address %A

Severity: Warning

Explanation: Another OSPF router on the network has either flushed the network LSA or originated a network LSA for a local OSPF interface. This can happen due to a router ID change, or a duplicate IP address in the network.

Recommended Action: If this message persists, check OSPF routers on the network for a duplicate IP address

RESTART_HELPER_ENTER: NGB %A entering graceful restart helper mode on %s, %A.

Severity: Warning

Explanation: OSPF is entering helper mode for the specified neighbor, on the reported interface and local IP address.

Recommended Action: No action is required. This information can be useful for troubleshooting OSPF.

RESTART_HELPER_EXIT: NGB %A exiting graceful helper mode on %s, %A: %s

Severity: Warning

Explanation: OSPF has completed helping a neighbor gracefully restart on the reported interface and local IP address, with the given reason.

Recommended Action: No action is required. This information can be useful for troubleshooting OSPF.

RESTART_HELPER_SPKR_BACK: NGB %A restarting speaker %A is back on %s, %A: %s

Severity: Warning

Explanation: OSPF neighbor that is gracefully restarting is re-discovered on the reported interface and local IP address when, for example, a Hello packet is received.

Recommended Action: No action is required. This information can be useful for troubleshooting OSPF.

RESTART_SPKR_ENTER: entering unplanned graceful restart for ospf instance %d, grace period %d, reason %s

Severity: Warning

Explanation: OSPF instance is gracefully restarting for the reported grace-period and reason.

Recommended Action: No action is required. This information can be useful for troubleshooting OSPF.

RESTART_SPKR_EXIT: exiting graceful restart for ospf instance %d, reason %s

Severity: Warning

Explanation: OSPF instance is exiting graceful restart with the given reason.

Recommended Action: No action is required. This information can be useful for troubleshooting OSPF.

STATE_CHANGE: NGB %a (%a) on interface %a changed from <%s> to <%s>

Severity: Warning

Explanation: A neighbor's OSPF state has changed.

Recommended Action: Usually, no action is required. This information can be useful for troubleshooting OSPF if the switch is not properly maintaining adjacency with one or more neighbors.

2.107 OSPF3 Messages

ADJACENCY_ESTABLISHED: %s Neighbor %a, interface %a adjacency established.

Severity: Warning

Explanation: The switch has finished the OSPFv3 handshaking process with a neighboring switch and now sees it as adjacent

Recommended Action: No action is required – this message is for information only.

ADJACENCY_TEARDOWN: %s Neighbor %a, interface %a adjacency dropped.

Severity: Warning

Explanation: The switch has removed a neighbor's adjacent status. There are many possible causes, including invalid data received from a neighbor, a change in which neighbors are eligible for adjacency, or OSPFv3 being explicitly disabled on the switch or its neighbors.

Recommended Action: Depending on the reason and other network conditions, this may or may not require action

ADJACENCY_TYPE_MISMATCH: There is an adjacency type mismatch between interface %s (type %s) and neighbor router %a (type %s), the adjacency will not be used for routing

Severity: Warning

Explanation: Please be aware that adjacencies formed between Point-to-Point and Broadcast neighbors does not provide full OSPF functionality.

Recommended Action: Identify the two ends of the adjacency and if possible, configure the routers to be in the same OSPF interface network type.

CONVERGED: OSPF3 in VRF %s has converged for AF %s and its routes are in FIB

Severity: Notice

Explanation: OSPF3 has converged after listening to updates from peers if any and is now ready to advertise best path routes to peers

Recommended Action: No action is required – this message is for information only.

LSA_LIMIT: The maximum LSA limit of %d has been reached for OSPFv3 instance %d for address family %s. The instance is disabled for %d minutes (%d of %d)

Severity: Error

Explanation: The number of LSAs in the OSPFv3 routing system has reached the configured limit, and the instance has been disabled. It will be re-enabled after the configured time.

Recommended Action: Identify the system that is advertising excessive LSAs or raise this system's maximum LSA configuration.

LSA_LIMIT_DISABLED: The maximum LSA limit of %d has been reached for OSPFv3 instance %d for address family %s %d times. The instance is disabled until reconfigured

Severity: Error

Explanation: The number of LSAs in the OSPFv3 routing system has reached the configured limit too many times. OSPFv3 has been disabled until it is manually shut down and re-enabled.

Recommended Action: Identify the system that is advertising excessive LSAs or raise this system's maximum LSA configuration.

LSA_LIMIT_MAX_WARNING: The maximum LSA limit of %d has been reached for OSPFv3 instance %d for address family %s.

Severity: Error

Explanation: The number of LSAs in the OSPFv3 routing system has reached the configured limit.

Recommended Action: Identify the system that is advertising excessive LSAs or raise this system's maximum LSA configuration.

LSA_LIMIT_RECOVER: OSPFv3 instance %d for address family %s has been re-enabled after it was disabled due to reaching the maximum LSA limit

Severity: Error

Explanation: The instance is being re-enabled after the disabled time.

Recommended Action: No action is required. The system is once again operating normally.

LSA_LIMIT_WARNING: Current LSA count %d is approaching the configured limit %d in OSPFv3 instance %d for address family %s.

Severity: Warning

Explanation: The number of LSAs in the OSPFv3 routing system is approaching the configured limit. If it reaches the limit, the OSPFv3 instance will be disabled. Identify the system that is advertising excessive LSAs.

Recommended Action: Identify the system that is advertising excessive LSAs or raise this system's maximum LSA configuration.

RESTART_HELPER_ENTER: AF %s: Entering graceful restart helper mode for neighbor %A on %s

Severity: Warning

Explanation: OSPF3 AF (address family) is entering helper mode for the specified neighbor.

Recommended Action: No action is required. This information can be useful for troubleshooting OSPF3.

RESTART_HELPER_EXIT: AF %s: Exiting helper mode for restarting neighbor %A, state %s: reason %s

Severity: Warning

Explanation: OSPF3 AF (address family) has completed helping a neighbor gracefully restart with the given reason. The neighbor is currently in the given state.

Recommended Action: No action is required. This information can be useful for troubleshooting OSPF3.

RESTART_HELPER_SPKR_BACK: AF %s: Restarting speaker %A is back, %s

Severity: Warning

Explanation: OSPF3 AF (address family) neighbor that is gracefully restarting is re-discovered when, for example, a Hello packet is received.

Recommended Action: No action is required. This information can be useful for troubleshooting OSPF3.

RESTART_SPKR_ENTER: AF %s: Entering unplanned graceful restart, grace period %d, reason %s

Severity: Warning

Explanation: OSPF3 is gracefully restarting the AF (address family) for the reported grace-period and reason.

Recommended Action: No action is required. This information can be useful for troubleshooting OSPF3.

RESTART_SPKR_EXIT: AF %s: Exiting graceful restart for %d, reason %s

Severity: Warning

Explanation: OSPF3 is exiting graceful restart for the AF (address family) with the given reason.

Recommended Action: No action is required. This information can be useful for troubleshooting OSPF3.

STATE_CHANGE: %s Neighbor %a, interface %s state change: %s to %s

Severity: Warning

Explanation: A neighbor's OSPF3 state has changed.

Recommended Action: Usually, no action is required. This information can be useful for troubleshooting OSPF if the switch is not properly maintaining adjacency with one or more neighbors.

2.108 PACKAGE Messages

REPO_CREATED: Package repository %s has been created.

Severity: Info

Explanation: The package repository has been created.

Recommended Action: No action is required – this message is for information only.

REPO_DELETED: Package repository %s has been deleted.

Severity: Info

Explanation: The package repository has been deleted.

Recommended Action: No action is required – this message is for information only.

2.109 PBR Messages

HW_RESOURCE_FULL: Failed programming %d %s rule(s) for the PBR policy '%s' on %s: Rules exceed hardware capacity.

Severity: Error

Explanation: The switch is unable to program all PBR rules due to insufficient hardware resources.

Recommended Action: Reduce number of PBR rules or reconfigure other features to free up hardware resources for PBR

HW_RESOURCE_NORMAL: Successfully programmed %d %s rule(s) for the PBR policy '%s' on %s: Rules are within hardware capacity limits.

Severity: Error

Explanation: The switch was able to program all PBR rules in the hardware.

Recommended Action: No action is required – this message is for information only.

POLICY_DROP_ACTION_UNSUPPORTED: PBR policy (%s) requires programming an unsupported drop action on %s

Severity: Error

Explanation: The named PBR policy programmed no action in place of the drop action.

Recommended Action: Please remove the drop action in the PBR policy and "ip policy unresolved-nextthop action drop" from the configuration.

2.110 PCAP Messages

HANDLING_FAILURE: The pcap file could not be handled because %s

Severity: Error

Explanation: The pcap file could not be handled because pcap_open_dead or pcap_compile failed

Recommended Action: No action is required – this message is for information only.

2.111 PFC Messages

BUFFERS_DRAIN_TIMEOUT: Unable to drain traffic from interface %s while applying PFC configuration.

Severity: Info

Explanation: Traffic originating from this interface is not completely draining out due to traffic patterns.

Recommended Action: No action is required – this message is for information only.

DROP_ALL: %s queue %s of interface %s is forced to be in stuck condition and all packets will be dropped

Severity: Error

Explanation: The queue identified in the log message has been unconditionally marked as stuck following pertinent configuration applied on the interface and all traffic destined to it will be dropped

Recommended Action: No action is required – this message is for information only.

FORCE_RECOVERY_TIME_ELAPSED: The priority flow control pause recovery-time (%s) for %s queue %s of interface %s elapsed after %f seconds. %s. This queue has recovered %u time(s) since last clear

Severity: Info

Explanation: The queue identified in the log message has been stuck for longer than the recovery-time configured for the interface

Recommended Action: No action is required – this message is for information only.

PRIORITY_UNSUPPORTED: Priority Flow Control priority %s on interface %s is not supported on this platform when Ethernet flow control encryption is enabled.

Severity: Info

Explanation: To support the priority remove the interface Ethernet flow control encryption configuration.

Recommended Action: No action is required – this message is for information only.

PRIORITY_UNSUPPORTED_CLEARED: Unsupported Priority Flow Control priority %s on interface %s is no longer configured.

Severity: Info

Explanation: The unsupported priority has been removed from the configuration.

Recommended Action: No action is required – this message is for information only.

RECOVERY_TIME_ELAPSED: The priority flow control pause recovery-time (%s) for %s queue %s of interface %s elapsed after %f seconds. %s. This queue has recovered %u time(s) since last clear

Severity: Info

Explanation: The queue identified in the log message has recovered from congestion for longer than the recovery-time configured for the interface

Recommended Action: No action is required – this message is for information only.

TIMEOUT_EXPIRED: The priority flow control pause timeout for %s queue %s of interface %s expired after %f seconds. %s. This queue has been stuck %u time(s) since last clear

Severity: Error

Explanation: The queue identified in the log message was continuously paused for longer than the watchdog timeout configured for the interface

Recommended Action: No action is required – this message is for information only.

UNCONFIGURED_PRIORITY: Priority %s on interface %s received %u priority flow control pause frames

Severity: Info

Explanation: The priority identified in log message is not configured

Recommended Action: No action is required – this message is for information only.

UNSUPPORTED_DROP_ACTION: The PFC watchdog drop action configured on %s is unsupported

Severity: Error

Explanation: The PFC watchdog action is configured to drop, most likely via the startup config. This action is not supported in this version of EOS on this switch.

Recommended Action: Reconfigure the PFC watchdog action for the specified interface to 'errdisable' and save the running config to the startup config.

WATCHDOG_ACTION_PROGRAMMING_FAILED: PFC Watchdog action could not be programmed for %s queue %s of interface %s due to hardware resource exhaustion.

Severity: Error

Explanation: Exceeded hardware resource limits

Recommended Action: No action is required – this message is for information only.

WATCHDOG_CFG_CORR_TIMEOUT: Applying user configured polling-interval %g second(s) as it is now less than or equal to half of timeout %g second(s)%s

Severity: Info

Explanation: Use configured values when there are no conflicts

Recommended Action: No action is required – this message is for information only.

WATCHDOG_CFG_CORR_TIMEOUT_RECOVERY_TIME: Applying user configured polling-interval %g second(s) as it is now less than or equal to half of both timeout %g second(s) and recovery-time %g second(s)%s

Severity: Info

Explanation: Use configured values when there are no conflicts

Recommended Action: No action is required – this message is for information only.

WATCHDOG_CFG_WARNING: Polling-interval %g second(s) is greater than half of %s %g second(s). Setting polling-interval to %g second(s)%s

Severity: Warning

Explanation: Notify the user that configuration for PFC Watchdog is faulty and fall back to a config which guarantees watchdog performance

Recommended Action: No action is required – this message is for information only.

WATCHDOG_NOT_SUPPORTED_ON_PORT: PFC Watchdog is not supported on interface %s

Severity: Error

Explanation: The interface identified in the log message cannot be configured to support PFC watchdog

Recommended Action: No action is required – this message is for information only.

WATCHDOG_QUEUE_DROP_PROGRAMMING_FAILED: PFC Watchdog queue drop could not be programmed for %s queue %s of interface %s due to hardware resource exhaustion. Reverting to drain behavior for the queue

Severity: Error

Explanation: Exceeded hardware resource limits

Recommended Action: No action is required – this message is for information only.

2.112 PHY Messages

MDI_PAIR_LAYOUT_SPEED_CONFIG_INCOMPATIBLE: MDI/MDI-X pair layout configuration is unsupported when auto-negotiation is disabled, auto MDI-X configuration will be used on interface %s instead.

Severity: Warning

Explanation: MDI/MDI-X pair layout and speed configurations are incompatible with each other.

Recommended Action: To fix this problem, please leave only the preferred configuration of either MDI/MDI-X pair layout or speed on the interface.

RX_PREDISTORTION_CONFIG_UNSUPPORTED: Receiver pre-distortion filter configuration %s is unsupported on interface %s, default receiver pre-distortion filter configuration will be used instead.

Severity: Warning

Explanation: Receiver pre-distortion filter configuration is unsupported.

Recommended Action: No action is required – this message is for information only.

TX_GAIN_CONFIG_UNSUPPORTED: Transmitter gain configuration of %s percent is unsupported on interface %s, default transmitter gain configuration will be used instead.

Severity: Warning

Explanation: Transmitter gain configuration is unsupported.

Recommended Action: No action is required – this message is for information only.

TX_GAIN_RX_PREDISTORTION_CONFIG_INCOMPATIBLE: Transmitter gain configuration of %s percent is incompatible with the receiver pre-distortion filter configuration %s on interface %s, default transmitter gain configuration will be used instead.

Severity: Warning

Explanation: Transmitter gain and receiver pre-distortion filter configurations are incompatible with each other.

Recommended Action: To fix this problem, please leave only the preferred configuration of either transmitter gain or receiver pre-distortion filter on the interface.

2.113 PIM Messages

BFD_STATE_CHANGE: neighbor %s %s to %s on interface %s

Severity: Notice

Explanation: The BFD state changed on the PIM neighbor.

Recommended Action: No action is required – this message is for information only.

MAKE_BEFORE_BREAK_NOT_SUPPORTED: make-before-break for IIF Switching not supported on the underlay VRF, expect multicast traffic duplication.

Severity: Warning

Explanation: The switch does not support make-before-break option for VxLAN underlay IIF switch because of unavailable hardware resources. This could result in persistent overlay multicast traffic duplication.

Recommended Action: Please disable the make-before-break option for IIF switching using the following command : "make-before-break disabled" under "router-pim-sparse-ipv4". VxLAN underlay multicast traffic may be lost during an IIF switch.

MESSAGE_AF_MISMATCH: Attempted to send %s %s message with %s address in the message

Severity: Warning

Explanation: A PIM message encountered multiple address families while sending.

Recommended Action: Collect show-tech and contact support.

MESSAGE_INVALID_DESTINATION: Invalid PIM destination %s for PIM type %d received from source %s.

Severity: Error

Explanation: The IP destination sent by the peer PIM router is not correct.

Recommended Action: Capture the packet using tcpdump and contact support.

MESSAGE_INVALID_ENCODED_GROUP: Attempted to send %s message with a non-multicast encoded group %s

Severity: Warning

Explanation: A PIM message contains an S,G where the encoded group is not multicast.

Recommended Action: Collect show-tech and contact support.

MESSAGE_INVALID_ENCODED_SOURCE: Attempted to send %s message with a non-unicast encoded source %s

Severity: Warning

Explanation: A PIM message contains an S,G where the encoded source is not unicast.

Recommended Action: Collect show-tech and contact support.

MESSAGE_INVALID_TYPE: Invalid PIM type %d received from source %s.

Severity: Error

Explanation: The PIM type is not recognized.

Recommended Action: Capture the packet using tcpdump and contact support.

MESSAGE_INVALID_VERSION: Invalid PIM version %d received from source %s.

Severity: Error

Explanation: The version sent by the peer PIM router is not supported.

Recommended Action: Capture the packet using tcpdump and contact support.

MESSAGE_UNPROCESSQ_FULL: PIM unprocessed message queue is full for neighbor %s, message type 0x%x on VRF %s.

Severity: Notice

Explanation: Delayed protocol convergence is expected.

Recommended Action: No action is required – this message is for information only.

MODE_MISMATCH: Neighbor %s is running %s, while interface %s is running %s.

Severity: Error

Explanation: The PIM neighbor state cannot be formed due to mismatch in mode.

Recommended Action: No action is required – this message is for information only.

NBRCHG: neighbor %s %s on interface %s

Severity: Notice

Explanation: The PIM neighbor state changed on the interface.

Recommended Action: No action is required – this message is for information only.

NEIGHBOR_SECONDARY_ADDRESS_CONFLICT: Neighbor %s advertised secondary address %s on interface %s, which was previously advertised by neighbor %s

Severity: Notice

Explanation: There is a conflict and the same secondary address was previously advertised by another neighbor. The most recently received mapping is maintained.

Recommended Action: No action is required – this message is for information only.

PORT_ASSOCIATION_FAIL: Failed to send PIM Join-Prune message to %s:8471 in VRF %s.

Severity: Error

Explanation: Unable to setup SCTP association with router

Recommended Action: Verify unicast reachability to destination

SCTP_BUFFER_OVERFLOW: TX buffer overflow in VRF %s

Severity: Error

Explanation: SCTP TX buffer has overflowed and PIM messages are lost.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

UNSUPPORTED_MAX_UNRESOLVED_PACKET_BUFFER_LIMIT: Unresolved packet-buffer limit %d not supported. Setting it to default value 3

Severity: Notice

Explanation: Multicast software-forwarding mode kernel does not allow to set max unresolved packet buffer limit to lower than 3

Recommended Action: Increase the unresolved packet-buffer limit to or above 3 or use software-forwarding mode sfe

2.114 PIMBSR Messages

CRPADV_ZONE_SET: Received Candidate-RP Advertisements from C-RP %s with Zone bit set

Severity: Info

Explanation: This is an unusual condition for which RFC 5059 mentions BSR mechanism to log such activities. This log is only for informational purpose and is produced when a multicast boundary router is configured as a Candidate RP. This does not pose any operational issue.

Recommended Action: In order to not see this message remove Candidate-RP configuration from the multicast boundary router.

IPV6_PREFIX_TOO_SHORT: Received a PIM Bootstrap Router Message with the Admin Scope Zone

Severity: Warning

Explanation: bit set and the IPv6 prefix %s with a prefix length < 16.

Recommended Action: This BSM must be dropped according to RFC 5059.

MESSAGE_CRP_ZONE: C-RP advertisement received from %s with Zone bit set.

Severity: Notice

Explanation: Indicated C-RP is a ZBR. This message is logged in compliance to RFC 5059.

Recommended Action: If C-RP is not a ZBR contact support. This message is safe to ignore otherwise.

2.115 PM853X Messages

PORT_BIND_FAILURE: Failed to configure downstream PCIe port %s (slotName %s, state %s, targetState %s).

Severity: Error

Explanation: Card slot inoperable.

Recommended Action: Please contact your support representative for assistance.

PORT_BOUND_UNEXPECTEDLY: Misconfigured downstream PCIe port.

Severity: Error

Explanation: Firmware configuration may be out-of-date.

Recommended Action: Please contact your support representative for assistance.

2.116 POE Messages

FIRMWARE_VERSION: PoE %s firmware version is %s, EOS firmware version is %s

Severity: Info

Explanation: A difference in firmware version between PoE hardware and EOS has been detected.

Recommended Action: No action is required – this message is for information only.

PAIRSET_LEGACY_DETECT_INCOMPATIBLE: %s has incompatible configurations 'poe legacy detect' and 'poe pairset 4-pair'. The pairset configuration is overridden.

Severity: Warning

Explanation: Legacy detection is incompatible with 4-pair power.

Recommended Action: Either disable legacy detection or configure only one pairset.

PD_DETECTED: %s has detected a %s powered device

Severity: Info

Explanation: A powered device is plugged into this interface, and has been successfully detected and classified.

Recommended Action: No action required.

PD_FAILED: %s has failed and has stopped providing power to the powered device

Severity: Warning

Explanation: The port has failed to power the powered device.

Recommended Action: Check the output of 'show poe' and other log messages for details of why this port failed.

PD_LINK_SHUTDOWN: %s has temporarily stopped providing power to the powered device due to the interface state changing to link down. Power will be re-enabled in %d seconds.

Severity: Info

Explanation: There is a link down detected on the interface, and PoE link down action power-off is configured

Recommended Action: No action is required – this message is for information only.

PD_OVERLOADED: %s has been overloaded and has stopped providing power to the powered device

Severity: Warning

Explanation: The powered device was trying to consume more power than its power limit.

Recommended Action: Check the output of 'show poe' and other log messages for details of why this port is overloaded. Please check the 'Granted Power' field from 'show poe' output for current power limit.

PD_POWERED: %s is powering the connected powered device

Severity: Info

Explanation: The powered device is currently powered.

Recommended Action: No action required.

POWER_MAINTAIN_RPR_INCOMPATIBLE: PoE reboot action maintain is incompatible with redundancy protocol RPR. PoE ports will stop providing power during switchover.

Severity: Warning

Explanation: When the redundancy protocol is RPR, the PoE reboot action will be power-off.

Recommended Action: Either disable reboot action maintain or use SSO or simplex redundancy modes.

PSE_CRC_FAILURE: PSE chip firmware CRC check failed. Interfaces managed by the PSE chip will not properly provide PoE functionalities.

Severity: Error

Explanation: PSE chip firmware CRC check failed.

Recommended Action: If the problem persists, power cycle the system. Otherwise, no action is required.

PSE_FIRMWARE_FAILURE: %s has failed to download PSE chip firmware. Interfaces managed by the PSE chip will not properly provide PoE functionalities.

Severity: Error

Explanation: PSE chip failed to download firmware after three tries.

Recommended Action: Please power cycle the fixed system or the linecard. If the problem persists, contact your support representative. Otherwise, no action is required.

2.117 POLICING Messages

INTERFACE_POLICER_HW_RESOURCE_FULL: Hardware resources are insufficient to program %s policer for interface %s

Severity: Error

Explanation: The switch is unable to program interface policing configuration due to insufficient hardware resources. Reduce the number of policers applied on interfaces or reconfigure policers to use less policer profiles to free up resources.

Recommended Action: Remove and reapply the config on interfaces after modifications to enable the policing.

INTERFACE_POLICER_NOT_SUPPORTED: The action %s applied on interface %s is not supported in the TCAM profile.

Severity: Info

Explanation: The action is not supported in the TCAM profile. Check that the feature 'interface-policing' is present in the TCAM feature set and the police actions are present in the action set of the feature.

Recommended Action: No action is required – this message is for information only.

2.118 POLICY Messages

MAP_HAS_UNSUPPORTED_DENY_RULES: PBR policy %s was not programmed in hardware since deny rules in the policy configuration are not supported for feature %s.

Severity: Error

Explanation: Deny rules aren't supported in the feature, so one or more policies aren't programmed in the hardware.

Recommended Action: Remove deny rules and apply the policy again.

MAP_TCP_FLAGS_MATCH_IGNORED: TCP flags match in ACL %s is not supported in %s ACL.

Severity: Info

Explanation: Rules in ACLs having TCP flags match will be applied without TCP flags match condition.

Recommended Action: No action is required – this message is for information only.

MAP_VLAN_MATCH_IGNORED: VLAN match in ACL %s is not supported in %s ACL.

Severity: Info

Explanation: Rules in ACLs having VLAN match will be applied without VLAN match condition.

Recommended Action: No action is required – this message is for information only.

MAP_VXLAN_MATCH_IGNORED: VXLAN match in ACL %s is not supported in %s ACL.

Severity: Info

Explanation: Rules in ACLs having VXLAN match will be applied without VXLAN match condition.

Recommended Action: No action is required – this message is for information only.

2.119 PORTSECURITY Messages

PSECURE_CACHE_INVALID: Invalid data format in port-security cache %s. Port-security cache could be partially loaded.

Severity: Error

Explanation: Port-security cache is corrupted. Check port-security cache content.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PSECURE_CACHE_LOAD_FAILED: Failed to load port-security cache %s.

Severity: Warning

Explanation: Port-security cache could not be loaded. Check whether port-security cache exists and has proper permissions.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PSECURE_CACHE_VERSION_UNSUPPORTED: Port-security cache %s version %s is not supported. Port-security cache not loaded.

Severity: Error

Explanation: Unable to load port-security cache. Port-security cache version is not supported

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PSECURE_MAXIMUM_UNSUPPORTED: Port-security on this platform doesn't support maximum %d. The limit of the maximum is %d. Port-security maximum not set.

Severity: Error

Explanation:

Recommended Action: Try to configure maximum allowed address again.

PSECURE_PROTECT_ACTIVE: Port security limit of %d addresses has been reached on %s in protect mode.

Severity: Info

Explanation: Traffic from any new MAC address on this port will be dropped.

Recommended Action: No action is required – this message is for information only.

PSECURE_PROTECT_FAILED: Application of port security protection policy failed on interface %s.

Severity: Error

Explanation: Typically, this is due to insufficient hardware resources.

Recommended Action: Try disabling and re-enabling port security.

PSECURE_VIOLATION: Security violation occurred, caused by MAC address %s on vlan %d interface %s.

Severity: Critical

Explanation: The switch detected a violation of the MAC address table restrictions configured through the port-security facility.

Recommended Action: Review your network configuration and monitor the affected interface for unexpected MAC addresses.

PSECURE_VIOLATION_CLEARED: Security violation previously reported on interface %s has cleared.

Severity: Notice

Explanation: The switch detected that a prior violation of the MAC address table restrictions configured through the port-security facility has been lifted, as the interface is now in compliance with port-security requirements.

Recommended Action: No action is required – this message is for information only.

2.120 PREFIX Messages

MROUTE_HW_RESOURCE_FULL: Hardware resources in TCAM are insufficient to program all multicast prefix routes.

Severity: Error

Explanation: To solve this issue, reconfigure the network to reduce the size of the multicast prefix routes. When the prefix routes reduces, the switch automatically programs any unprogrammed multicast prefix routes in hardware.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

MROUTE_HW_RESOURCE_NORMAL: All multicast prefix routes are programmed in TCAM.

Severity: Error

Explanation: The switch was able to program all the multicast prefix routes in TCAM and normal hardware routing has resumed.

Recommended Action: No action is required – this message is for information only.

2.121 PREFIXLIST Messages

IMPORT_FAILED: Failed to import %s prefix-list %s from source %s. Possible reason: %s. Please check source validity.

Severity: Error

Explanation: A prefix-list is set up with an import source URL to load its set of prefix entries. The source is either a local file or a remote URL and must be available at the time of import. The entries in the file must conform to prefix-list entry syntax.

Recommended Action: Check the URL and content of the file

IMPORT_SUCCEEDED: Imported %s prefix-list %s from source %s.

Severity: Info

Explanation: A prefix-list is set up with an import source URL to load its set of prefix entries. The source is either a local file or a remote URL and must be available at the time of import. The entries in the file must conform to prefix-list entry syntax.

Recommended Action: No action required

2.122 PROCESS Messages

START_FAILED_NO_SPACE: Launcher failed to create the ProcMgr configuration file '%s' for process '%s' in role '%s' because the filesystem is out of space.

Severity: Error

Explanation: Please clean up space in your disk partitions.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.123 PROCMGR Messages

CFGOPTION_UNKNOWN: Fatal error: unknown ProcMgr config option in '%s': (%s=%s)

Severity: Emergency

Explanation: The specified config file contains an unknown config option. The unknown option is listed.

Recommended Action: Confirm that the packages containing ProcMgr is correctly installed. Plan to not be able to use this system until the problem is fixed.

COMMAND_RECEIVED: ProcMgr has received '%s' command

Severity: Info

Explanation: ProcMgr has received a request to perform the specified action. This message is informational only.

Recommended Action: No action is required – this message is for information only.

CONFIG_NOTFOUND: Fatal error: cfg file '%s' not found!

Severity: Emergency

Explanation: The system is unusable, because the ProcMgr configuration file does not exist.

Recommended Action: This is a serious error. Confirm that the package containing ProcMgr is correctly installed. Plan not to be able to use this system until the problem is fixed.

CONFIG_UNPARSEABLE: Fatal error: parse error while parsing cfg file '%s': %s.

Severity: Emergency

Explanation: The system is unusable, because the ProcMgr config file could not be parsed. Was it corrupted or overwritten?

Recommended Action: Confirm that the package containing ProcMgr is correctly installed. Plan to not be able to use this system until the problem is fixed.

CONFIG_UNREADABLE: Fatal error: cfg file '%s' is not readable!

Severity: Emergency

Explanation: The system is unusable, because the ProcMgr configuration file exists, but can not be read.

Recommended Action: This is a serious error. Confirm that the package containing ProcMgr is correctly installed. Plan not to be able to use this system until the problem is fixed.

FINALSHUTDOWN: Final shutdown – ProcMgr %d and all related processes stopped!

Severity: Info

Explanation: This is the last message from ProcMgr before final shutdown.

Recommended Action: No action is required – this message is for information only.

FORKFAILED: Fatal error: unable to start '%s': %s

Severity: Emergency

Explanation: The specified process could not be started. The reason for the failure is specified in the message.

Recommended Action: Plan not to be able to use this system until the problem has been fixed.

HEARTBEATFILEMISSING: Heartbeat file of '%s' (PID=%d) is missing

Severity: Info

Explanation: The heartbeat file of the specified process is missing. ProcMgr will stop the process, and will restart it, if applicable.

Recommended Action: Keep an eye on the message.

MASTER_RUNNING: Master ProcMgr (PID=%d) monitoring ProcMgr worker (PID=%d)

Severity: Info

Explanation: The master ProcMgr is monitoring the ProcMgr worker process.

Recommended Action: No action is required – this message is for information only.

MASTER_STARTED: Master ProcMgr process started. (PID=%d)

Severity: Info

Explanation: The ProcMgr master process has started running.

Recommended Action: No action is required – this message is for information only.

NEW_PROCESSES: New processes configured to run under ProcMgr control: %s

Severity: Debug

Explanation: The specified processes have been added to the set of processes that run under ProcMgr control. This message is informational only.

Recommended Action: No action is required – this message is for information only.

PREDECESSOR_GONE: New instance of %s (PID=%d): predecessor (PID=%d) has been reaped.

Severity: Debug

Explanation: After being spawned due to a configuration change, new Agent is continuing as predecessor's exit status has been reaped. This message is informational only.

Recommended Action: No action is required – this message is for information only.

PREDECESSOR_NOT_EXITING: New instance of %s (PID=%d) is stalled waiting until predecessor (PID=%d) exits

Severity: Warning

Explanation: The new Agent is still waiting for the old Agent. System operation may be affected if this continues as new Agent cannot start.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PREDECESSOR_WAITING: New instance of %s (PID=%d): waiting for reaping of predecessor (PID=%d)

Severity: Debug

Explanation: After being spawned due to a configuration change, new instance of Agent is waiting for predecessor's exit status to be reaped. This message is informational only.

Recommended Action: No action is required – this message is for information only.

PROCCFG_BADVALUE: Error: bad config value for process '%s': %s=%s.

Severity: Error

Explanation: The config file for the process specified a valid config option, but set that option to an invalid value. The process will not be started.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PROCCFG_INCOMPLETE: Error! Process incompletely configured: exe='%s', argv='%s', heartbeatPeriod='%s'.

Severity: Error

Explanation: One or more of the required process config parameters was not set.

Recommended Action: Confirm that the package containing the config file is installed correctly, and is up to date.

PROCCFG_OPTION_UNKNOWN: Error: config for '%s' has unknown option (%s=%s)

Severity: Error

Explanation: The specified config file contains an unknown config option. The unknown option is listed.

Recommended Action: Confirm that the package containing the file is correctly installed. Plan not to be able to use this system until the problem is fixed.

PROCCFG_UNPARSEABLE: Config file '%s' can not be parsed. The process configured in it will not be started.

Severity: Info

Explanation: The process config file is not parseable. This condition should be transient. If it persists, the system might be unstable.

Recommended Action: A process config file was found to be unparseable. This can occur while the system is being reconfigured (e.g., packages are installed/removed/updated), but should be transient. If the message persists, the system might be unstable, or some features might not work. Find out why the process config file is expected, but not there.

PROCESSES_ADOPTED: ProcMgr (PID=%d) adopted running processes: %s

Severity: Debug

Explanation: During a warm restart, ProcMgr took over management of the listed process(es) already running. This message is informational only

Recommended Action: No action is required – this message is for information only.

PROCESSES_DECONFIGURED: Processes no longer running under ProcMgr control: %s

Severity: Debug

Explanation: The specified processes have been removed from the set of processes that run under ProcMgr control. This message is informational only.

Recommended Action: No action is required – this message is for information only.

PROCESS_CONFIG_DUPLICATE: Duplicate config for '%s' detected. Using the config with ctime %d.

Severity: Warning

Explanation: More than one config file contains configuration for the specified agent. This can happen when the system is being reconfigured (e.g., software is being installed/upgraded/uninstalled), but should not persist for longer than a few minutes.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PROCESS_DELAYRESTART: '%s' (PID=%d) restarted too often! Delaying restart for %s (until %s)

Severity: Error

Explanation: The specified process has required restart too often. In order to protect the system, restart of the process is being delayed until the specified time.

Recommended Action: Figure out why the process needs to be restarted so often, and fix the problem.

PROCESS_DELAY_STARTED: '%s' starting with PID=%d (PPID=%d) after a delay of %1.2f seconds

Severity: Info

Explanation: The specified process is restarted with a delay after 'reset system memory exhaustion' to avoid congestion.

Recommended Action: No action is required – this message is for information only.

PROCESS_NOTSTARTING: Error: '%s' can not be started, because its config is bad.

Severity: Error

Explanation: The specified process will not be started because its configuration is bad.

Recommended Action: Confirm that the package containing the config file is correctly installed. Plan not to be able to use this system until the problem is fixed.

PROCESS_NOT_RESTARTING: Letting '%s' (PID=%d) exit - NOT restarting it.

Severity: Info

Explanation: The specified process has stopped, and ProcMgr will not restart it. This could be due to the process being deconfigured, for example.

Recommended Action: No action is required – this message is for information only.

PROCESS_NOT_RESTARTING_LOWMEM: Not restarting '%s' (PID=%d) because of the memory exhaustion

Severity: Info

Explanation: The specified process has stopped, and ProcMgr will not restart it because such process is non-essential and the system is in memory exhaustion state.

Recommended Action: This message is expected when the system is in memory exhaustion state. Please try to disable features or find out if there is any memory leak and fix them. After that, run 'reset system memory exhaustion'.

PROCESS_RESTART: Restarting '%s' immediately (it had PID=%d)

Severity: Info

Explanation: The specified process is being restarted immediately.

Recommended Action: Keep an eye on the process – if it restarts frequently, figure out why.

PROCESS_STARTED: '%s' starting with PID=%d (PPID=%d) – execing '%s'

Severity: Info

Explanation: The specified process is about to be started with the specified process ID. PPID refers to the parent process's PID.

Recommended Action: No action is required – this message is for information only.

PROCESS_TERMINATED: '%s' (PID=%d, status=%s) has terminated.

Severity: Info

Explanation: The specified process has stopped running. This may or may not be intentional.

Recommended Action: No action is required – this message is for information only.

PROGRAM_NOTEXECUTABLE: Error! Program for '%s' (%s) not executable, but configured to run.

Severity: Error

Explanation: A major feature might not work, because the program that implements at least part of the feature can not be executed.

Recommended Action: This is a serious error. Confirm that the package containing the program is correctly installed. Plan not to be able to use the system until the problem is fixed.

PROGRAM_NOTFOUND: Error! Program for '%s' (%s) not found, but configured to run.

Severity: Error

Explanation: A major feature might not work, because the program that implements at least part of the feature can not be found.

Recommended Action: This is a serious error. Confirm that the package containing the program is correctly installed. Plan not to be able to use the system until the problem is fixed.

SHORTSLEEP: Waking up after sleeping only %s (of at least %s requested)

Severity: Debug

Explanation: ProcMgr was unable to delay the next review of the system for the minimum requested.

Recommended Action: Keep an eye on the message. If it appears frequently, figure out why ProcMgr can't sleep as long as requested. (Is it being interrupted by signals?)

SHUTDOWNREQUESTED: ProcMgr shutdown requested via SIGQUIT or SIGTERM to worker (PID=%d) – Master ProcMgr (PID=%d) exiting.

Severity: Error

Explanation: A requested shutdown of ProcMgr and all managed processes is being executed.

Recommended Action: No action is required – this message is for information only.

SHUTDOWN_SIGKILLALL: ProcMgr shutting down – terminating all managed procs: %s

Severity: Info

Explanation: ProcMgr is shutting down: all processes under its management will be terminated with a SIGKILL. The message lists the affected process IDs.

Recommended Action: No action is required – this message is for information only.

SHUTDOWN_SIGKILLPROC: ProcMgr shutting down – stopping '%s' (PID=%d) with SIGKILL

Severity: Info

Explanation: ProcMgr will deliver SIGKILL to the listed processes to allow it to shutdown gracefully.

Recommended Action: No action is required – this message is for information only.

TERMINATE_PROCESS_SIGKILL: Heartbeats from '%s' (PID=%d) missing for %s secs – terminating it with SIGKILL

Severity: Info

Explanation: ProcMgr is terminating the specified process because it is not behaving as expected, has been reconfigured, or has been configured to stop.

Recommended Action: This message is expected when the system is being reconfigured. If this message appears frequently when the system is not being reconfigured, there may be something wrong with the process.

TERMINATE_PROCESS_SIGQUIT: Heartbeats from '%s' (PID=%d) missing for %s secs – terminating it with SIGQUIT. Process kernel stack is (%s). Syscall is (%s).

Severity: Warning

Explanation: ProcMgr is terminating the specified process because it has detected that the process is not behaving as expected (heartbeats from the process are unexpectedly missing).

Recommended Action: Keep an eye on the process – if this happens frequently, there may be something wrong with the process.

TERMINATE_RUNNING_PROCESS: Terminating deconfigured/reconfigured process '%s' (PID=%d)

Severity: Info

Explanation: A running process has been configured to stop, or its configuration has changed. ProcMgr will stop the process, and will restart it with a new configuration, if applicable.

Recommended Action: No action is required – this message is for information only.

UNEXPECTEDCFGFILESGONE: %d files disappeared from %s, but no SIGHUP to ProcMgr. Gone are: %s

Severity: Warning

Explanation: ProcMgr has discovered that some process config files have disappeared without ProcMgr being informed. Running processes will not be stopped by ProcMgr, which is probably not the intention.

Recommended Action: Figure out why the files disappeared, and why ProcMgr was not told to rescan the directory (by sending ProcMgr a SIGHUP).

UNEXPECTEDNEWCFGFILES: %d new config files in %s, but no SIGHUP to ProcMgr. New are: %s

Severity: Warning

Explanation: ProcMgr has discovered process config files that it was not told about. The processes will not be started by ProcMgr, which is probably not the intention.

Recommended Action: Figure out where the files came from, and why ProcMgr was not told to rescan the directory (by sending ProcMgr a SIGHUP).

WORKER_COLDSTART: New ProcMgr worker cold start. (PID=%d) (Master ProcMgr PID=%d)

Severity: Info

Explanation: The ProcMgr worker thread is ready to begin its work.

Recommended Action: No action is required – this message is for information only.

WORKER_RESTART: ProcMgr worker (PID=%d) terminated unexpectedly – starting new worker

Severity: Error

Explanation: The ProcMgr worker process terminated unexpectedly, and is being restarted immediately.

Recommended Action: Keep an eye on this message – if it happens frequently, something is wrong with the system.

WORKER_WARMSTART: ProcMgr worker warm start. (PID=%d)

Severity: Info

Explanation: ProcMgr is doing a warm start (re-reading all config files, starting/stopping/adopting procs as needed).

Recommended Action: No action is required – this message is for information only.

WORKER_WARMSTART_DONE: ProcMgr worker warm start done. (PID=%d)

Severity: Debug

Explanation: ProcMgr has finished its warm start.

Recommended Action: No action is required – this message is for information only.

2.124 PTP Messages

ENTER_HOLDOVER_MODE: PTP clock has entered holdover mode after losing the master.

Severity: Info

Explanation: The clock has entered holdover mode.

Recommended Action: No action required.

EXIT_HOLDOVER_MODE: PTP clock has exited holdover mode after %s.

Severity: Info

Explanation: The clock has exited holdover mode.

Recommended Action: No action required.

GRANDMASTER_CHANGE: Old Grandmaster %s New Grandmaster %s

Severity: Info

Explanation: A change in the grandmaster clock in the PTP domain.

Recommended Action: No action required.

GRANDMASTER_CLASS_CHANGE: Old grandmaster class %x new grandmaster class %x

Severity: Info

Explanation: The class of the grandmaster clock for the PTP domain changed.

Recommended Action: No action required.

HIGH_MEAN_PATH_DELAY: Mean path delay over threshold detected: %l

Severity: Info

Explanation: High mean path delay value has been detected

Recommended Action: If persists, check if the grandmaster clock is stable

HIGH_OFFSET_FROM_MASTER: Offset from master over threshold detected: %l

Severity: Info

Explanation: High offset from master value has been detected

Recommended Action: If persists, check if the grandmaster clock is stable

HIGH_SKEW: Skew over threshold detected: %s

Severity: Info

Explanation: High skew value has been detected

Recommended Action: If persists, check if the grandmaster clock is stable

LEAP_59_APPLIED: Subtracted a leap second from PTP time at %s ns UTC.

Severity: Info

Explanation: A leap second was subtracted from PTP time.

Recommended Action: No action required.

LEAP_59_RECEIVED: Leap 59 notification received from PTP grandmaster %s

Severity: Info

Explanation: Received a notification to subtract a leap second from PTP time tonight at 11:59:58 UTC.

Recommended Action: No action required.

LEAP_61_APPLIED: Added a leap second to PTP time at %s ns UTC.

Severity: Info

Explanation: A leap second was added to PTP time.

Recommended Action: No action required.

LEAP_61_RECEIVED: Leap 61 notification received from PTP grandmaster %s

Severity: Info

Explanation: Received a notification to add a leap second from PTP time tonight at 11:59:59 UTC.

Recommended Action: No action required.

MESSAGE_MISSING: Latest PTP %s packet received on interface %s has sequence ID %d, last received sequence ID was %d

Severity: Info

Explanation: Missed sequence ID.

Recommended Action: Action required?

MESSAGE_MISSING_VLAN: Latest PTP %s packet received on interface %s, on VLAN %u has sequence ID %d, last received sequence ID was %d

Severity: Info

Explanation: Missed sequence ID.

Recommended Action: Action required?

MISSING_MESSAGE_TIMER: No PTP %s packet on interface %s has been received in %d seconds.

Severity: Info

Explanation: If persists, check if the master clock is

Recommended Action: sending PTP messages consistently

MISSING_MESSAGE_TIMER_VLAN: No PTP %s packet on interface %s, on VLAN %d has been received in %d seconds.

Severity: Info

Explanation: If persists, check if the master clock is

Recommended Action: sending PTP messages consistently

MPASS_PORT_ROLE_CHANGE: MPASS port role is now %s on interface %s on VLAN %u

Severity: Info

Explanation: The MPASS port role has changed

Recommended Action: No action is required – this message is for information only.

MPASS_PORT_STATUS_CHANGE: MPASS protocol is now %s on interface %s on VLAN %u%s

Severity: Info

Explanation: The MPASS protocol interface status has changed

Recommended Action: No action is required – this message is for information only.

PARENT_CHANGE: Old Parent port identity: %s IP: %s MAC: %s, New Parent port identity: %s IP: %s MAC: %s

Severity: Info

Explanation: A change in the parent clock identity.

Recommended Action: No action required

PARENT_TWO_STEP_FLAG: PTP Parent Two Step Flag is now %s

Severity: Info

Explanation: PTP Parent Two Step Flag has changed

Recommended Action: No action is required – this message is for information only.

PEER_DOWN: Interface %s is no longer AS Capable

Severity: Warning

Explanation: A gPTP capable peer is no longer present on this link.

Recommended Action: No action required.

PEER_UP: Interface %s is AS Capable.

Severity: Info

Explanation: A gPTP capable peer was detected on this link.

Recommended Action: No action required.

PORT_STATE_CHANGE: Old port state %s new port state %s on interface %s

Severity: Info

Explanation: The PTP port state of the specified interface changed.

Recommended Action: No action required.

PORT_VLAN_STATE_CHANGE: Old port state %s new port state %s on interface %s on VLAN %u

Severity: Info

Explanation: The PTP port state of the specified interface and VLAN id changed.

Recommended Action: No action required.

TIME_DISCREPANCY: Local vs master time difference detected: %s

Severity: Warning

Explanation: High local versus master time difference has been detected.

Recommended Action: Check if correct mean path delay is being used.

2.125 PW Messages

LOCAL_LOCAL_PATCH_ADDED: Pseudowire patch %s has been added

Severity: Info

Explanation: The pseudowire patch has been added to the system.

Recommended Action: No action is required – this message is for information only.

LOCAL_REMOTE_PATCH_ADDED: Pseudowire patch %s has been added with %s

Severity: Info

Explanation: The pseudowire patch has been added to the system.

Recommended Action: No action is required – this message is for information only.

LOCAL_REMOTE_PATCH_PEER_ADDED: Pseudowire patch %s neighbor(s) %s added

Severity: Info

Explanation: New remote neighbor(s) added for the pseudowire patch.

Recommended Action: No action is required – this message is for information only.

LOCAL_REMOTE_PATCH_PEER_REMOVED: Pseudowire patch %s neighbor(s) %s removed

Severity: Info

Explanation: Remote neighbor(s) removed from the pseudowire patch.

Recommended Action: No action is required – this message is for information only.

PATCH_REMOVED: Pseudowire patch %s has been removed

Severity: Info

Explanation: The pseudowire patch has been removed from the system.

Recommended Action: No action is required – this message is for information only.

2.126 PWRMGMT Messages

CARD_OVER_POWER_LIMIT: %s is consuming %dW of power, which exceeds %s (%dW)

Severity: Warning

Explanation: The card is drawing an abnormal amount of power, which could indicate an issue with the card.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

DUAL_INPUT_POWER_REDUNDANCY_LOSS: %s has lost redundancy. Input %c has lost input power

Severity: Warning

Explanation: The power supply has lost redundancy.

Recommended Action: Check the input power source to the power supply and that the power supply is properly plugged in. If the problem persists, contact your support representative. Otherwise, no action is required.

DUAL_INPUT_POWER_REDUNDANCY_OK: %s has redundancy. Input %c has regained input power

Severity: Warning

Explanation: The power supply had previously lost redundancy but is now ok.

Recommended Action: No action is required – this message is for information only.

INPUT_POWER_LOSS: %s has lost input power.

Severity: Warning

Explanation: The power supply has lost input power.

Recommended Action: Check the input power source to the power supply and that the power supply is properly plugged in. If the problem persists, contact your support representative. Otherwise, no action is required.

INPUT_POWER_OK: %s has regained input power.

Severity: Warning

Explanation: The power supply had previously lost input power but is now ok.

Recommended Action: No action is required – this message is for information only.

POWER_THRESHOLD_WARNING: PoE power consumption of %d watts exceeds the warning threshold of %d watts. Only %d watts of power remain.

Severity: Warning

Explanation: PoE power consumption is approaching system capacity.

Recommended Action: Check the output of 'show system environment power budget' for details.

PSU_OVER_CAPACITY: Power request from %s has exceeded the available %s power. See 'show system environment power budget' for details.

Severity: Warning

Explanation: More power has been requested than the current power configuration is able to support.

Recommended Action: Check for other log messages detailing why the power supply has exceeded the budget. While the power supply may be able to currently provide power to all devices, the system may become unstable if power consumption increases.

PSU_STATUS_FAILED: %s has failed and has stopped providing power to the system.

Severity: Error

Explanation: The power supply has failed and is no longer providing power to the system.

Recommended Action: Check the output of 'show system environment power' and other log messages for details of why the power supply failed. The power supply may need to be replaced. The problem should be fixed as soon as possible to avoid potential downtime in the future.

PSU_STATUS_OK: %s has recovered and is providing power to the system.

Severity: Error

Explanation: The power supply had previously failed but is now ok and is once again providing power to the system.

Recommended Action: Check for other log messages detailing why the power supply originally failed. While the power supply has recovered, the problem should be fixed as soon as possible to avoid potential downtime in the future.

2.127 QoS Messages

COPP_HW_RESOURCE_FULL: Insufficient %s resources to program the %s.

Severity: Error

Explanation: The switch is unable to program QoS CoPP configuration due to insufficient TCAM resources.

Recommended Action: Reduce number of ACL rules in policy map classes or reconfigure your ACLs to free some resources for CoPP

COPP_HW_RESOURCE_NORMAL: %s is programmed in %s.

Severity: Error

Explanation: The switch was able to program entire CoPP configuration in the TCAM.

Recommended Action: No action is required – this message is for information only.

COS_TO_TC_MAP_HW_FULL: Hardware resources are insufficient to program COS to traffic class map %s

Severity: Error

Explanation: The switch is unable to program COS to traffic class map due to insufficient hardware resources. If the resource is freed up, remove and reapply the configuration using the map in order to have it take effect.

Recommended Action: No action is required – this message is for information only.

DP_THRESHOLDS_HW_FULL: Hardware resources insufficient to program tx-queue DropThresholds on tc %s for port %s

Severity: Error

Explanation: The switch is unable to program tail drop threshold configuration due to insufficient hardware resources.

Recommended Action: No action is required – this message is for information only.

DSCP_TO_TC_MAP_HW_FULL: Hardware resources are insufficient to program DSCP to traffic class map %s

Severity: Error

Explanation: The switch is unable to program DSCP to traffic class map due to insufficient hardware resources. If the resource is freed up, remove and reapply the configuration using the map in order to have it take effect.

Recommended Action: No action is required – this message is for information only.

ECN_GLOBAL_HW_FULL: Hardware resources insufficient to program global-buffer ECN

Severity: Error

Explanation: The switch is unable to program ECN configuration due to insufficient hardware resources.

Recommended Action: No action is required – this message is for information only.

ECN_QUEUE_COUNTER_HW_FULL: Hardware resources insufficient for ECN queue counters for %s queue %d

Severity: Error

Explanation: The switch is unable to allocate ECN queue counters due to insufficient hardware resources.

Recommended Action: No action is required – this message is for information only.

ECN_QUEUE_HW_FULL: Hardware resources insufficient to program tx-queue ECN on queue %s for port %s

Severity: Error

Explanation: The switch is unable to program ECN configuration due to insufficient hardware resources.

Recommended Action: No action is required – this message is for information only.

ECN_TCAM_FULL: TCAM resources are insufficient to program TCAM to avoid nonECT drops

Severity: Error

Explanation: The switch is unable to avoid ECN drops for non ECN capable traffic due to insufficient TCAM resources

Recommended Action: Reconfigure other features that use TCAMs to free up some resources

EGRESS_PMAP_ACTION_UNSUPPORTED: %s action is not supported in output service policies on this platform

Severity: Warning

Explanation: this action will have no effect in output service policies on this platform

Recommended Action: No action is required – this message is for information only.

EXP_TO_TC_MAP_HW_FULL: Hardware resources are insufficient to program EXP to traffic class map %s

Severity: Error

Explanation: The switch is unable to program EXP to traffic class map due to insufficient hardware resources. If the resource is freed up, remove and reapply the configuration using the map in order to have it take effect.

Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: TCAM resources are insufficient to program %s for port %s

Severity: Error

Explanation: The switch is unable to program QoS configuration due to insufficient TCAM resources.

Recommended Action: Reconfigure other features that use TCAMs to free up some resources for QoS.

HW_RESOURCE_NORMAL: %s is programmed in TCAM for all ports

Severity: Error

Explanation: The switch was able to program entire QoS configuration in the TCAM.

Recommended Action: No action is required – this message is for information only.

LATENCY_THRESHOLD_QUEUE_HW_FULL: Hardware resources insufficient to program tx-queue latency threshold on queue %s for port %s

Severity: Error

Explanation: The switch is unable to program latency threshold configuration due to insufficient hardware resources.

Recommended Action: No action is required – this message is for information only.

MAC_ACL_RULE_IPV6_MISMATCH: Policy-map %s is configured with both MAC ACL and IPV6 ACL rule. ACL rules will be ignored for class-map %s.

Severity: Warning

Explanation: Class map with MAC ACL and Class map with IPV6 ACL can not exist in the same policy-map on this platform. Remove the MAC ACL associated class-map from policy-map

Recommended Action: No action is required – this message is for information only.

PMAP_FIELD_NOT_SUPPORTED: Access list matching %s %s associated with QOS service policy class map %s cannot be fully programmed in the hardware

Severity: Error

Explanation: Matching %s within QOS service policies is not supported. The %s are ignored in programming the service policy in the hardware. This may result in improper classification of packets on interfaces using the QOS service policy.

Recommended Action: No action is required – this message is for information only.

POLICY_COUNTER_HW_RESOURCE_FULL: Insufficient hardware resources to program the counter for the class-map %s in the policy-map %s on %s %s.

Severity: Error

Explanation: The switch is unable to program the QoS policy-map counter due to insufficient hardware resources.

Recommended Action: Reduce number of ACL rules in policy-map classes

POLICY_HW_RESOURCE_FULL: Insufficient hardware resources to program the %s policy-map %s.

Severity: Error

Explanation: The switch is unable to program QoS policy-map configuration due to insufficient hardware resources.

Recommended Action: Reduce number of ACL rules in policy-map classes or reconfigure your ACLs to free some resources for policy-map. If there is a policer in one of the classes, detaching policy-map from one of the interfaces also frees up resources

POLICY_HW_RESOURCE_NORMAL: Programmed %s policy-map %s in hardware.

Severity: Error

Explanation: The switch was able to program entire policy-map configuration in the hardware.

Recommended Action: No action is required – this message is for information only.

POLICY_MULTIPLE_ACTIONS: Multiple actions are attached to the class-map %s in the policy-map %s.

Severity: Error

Explanation: In case of conflicting actions only a single action is applied. Dscp rewrite is programmed over any other action, cos rewrite is programmed over traffic-class selection.

Recommended Action: Reconfigure policy-map and specify only one action per class.

POLICY_POLICER_RESOURCE_FULL: Insufficient hardware resources to program the police action for the class-map %s in the policy-map %s on %s %s.

Severity: Error

Explanation: Remove some features using policer banks and reapply the policy-map to the interface to enable police action.

Recommended Action: No action is required – this message is for information only.

POLICY_UNSHARED_POLICER_RESOURCE_FULL: Insufficient hardware resources to program the police action for the policy-map %s on interface %s.

Severity: Error

Explanation: Remove policy-maps on the programmed interfaces and reapply the policy-map on the interface to take effect.

Recommended Action: No action is required – this message is for information only.

SCH_SHP_UNIT_MISMATCH: Shape rate is in %s and Bandwidth guaranteed is in %s causing unit mismatch for queue %s on port %s. Not programming %s

Severity: Error

Explanation: Both Shape rate and Bandwidth guaranteed have to be in same units to be programmed properly in hardware.

Recommended Action: Reconfigure shape rate units or bandwidth guaranteed units

TC_TO_COS_PROFILE_HW_FULL: Hardware resources are insufficient to program traffic class to COS map %s.

Severity: Error

Explanation: The switch is unable to program traffic class to COS map due to insufficient hardware resources. If resource is freed up it is required to remove and reapply this configuration to take effect.

Recommended Action: No action is required – this message is for information only.

TC_TO_COS_UNSUPPORTED_INTF: Traffic class to COS map %s cannot be applied on %s

Severity: Error

Explanation: Traffic class to COS named map is only supported on L2 sub-interface.

Recommended Action: Please remove the traffic class to COS map from the interface.

TX_QUEUE_CONFIG_UNSUPPORTED: Unsupported tx-queue configuration on interface %s queue %d

Severity: Warning

Explanation: Use CLI to reconfigure tx-queue

Recommended Action: No action is required – this message is for information only.

TX_SCHEDULER_PKT_SIZE_ADJUSTMENT_HW_FULL: Hardware resources are insufficient to program scheduler compensation %d on interface %s.

Severity: Error

Explanation: The switch is unable to program scheduler compensation due to insufficient hardware resources. If the resource is freed up the pending configuration will be programmed automatically.

Recommended Action: No action is required – this message is for information only.

VLAN_ACL_RULE_SVI_MISMATCH: ACL %s with VLAN rule associated to class-map %s. ACL rules with VLAN filter will be ignored for VLAN interfaces.

Severity: Warning

Explanation: Either remove VLAN rule from ACL or remove service-policy configuration from the VLAN interface.

Recommended Action: No action is required – this message is for information only.

WRED_QUEUE_HW_FULL: Hardware resources insufficient to program tx-queue WRED on queue %s for port %s

Severity: Error

Explanation: The switch is unable to program WRED configuration due to insufficient hardware resources.

Recommended Action: No action is required – this message is for information only.

2.128 QUARTZY Messages

INIT_FAILED: Possible hardware error with the Quartzzy chip.

Severity: Error

Explanation: Initialization of the Quartzzy chip has failed.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.129 QUEUEMONITOR Messages

AGENT_RESTART: Queue monitor on %s has experienced an irrecoverable error, restarting queue monitoring agent to recover.

Severity: Warning

Explanation: Queue monitoring agent will restart immediately. Possible loss of congestion records may occur during the restart.

Recommended Action: No action is required – this message is for information only.

COPROCESSOR_ERROR: Queue monitor on %s has experienced an error, some congestion events may be lost

Severity: Warning

Explanation: Queue monitoring has stalled briefly. Possible loss of congestion records may occur while it recovers.

Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: %s

Severity: Error

Explanation: The ASIC is unable to program all LANZ configuration due to insufficient hardware resources.

Recommended Action: Reconfigure LANZ to reduce the amount of resources needed.

LENGTH_OVER_THRESHOLD: %s

Severity: Info

Explanation: Interface queue length is over threshold.

Recommended Action: No action is required – this message is for information only.

LENGTH_UNDER_THRESHOLD: Interface %s max queue length was %d, now back under low threshold of %d

Severity: Info

Explanation: Interface queue length is back under low threshold.

Recommended Action: No action is required – this message is for information only.

LENGTH_UPDATE: %s

Severity: Info

Explanation: Interface queue length and queue drop update message.

Recommended Action: No action is required – this message is for information only.

THRESHOLDS_INACTIVE: Interface thresholds inactive, threshold(s) of %s exceed the maximum VOQ tail drop threshold of %d for interface %d.

Severity: Warning

Explanation: Interface threshold(s) are inactive because the configured threshold(s) exceed the maximum VOQ tail drop threshold.

Recommended Action: Reconfigure the interface threshold(s) to be lower than the corresponding maximum VOQ tail drop threshold. To see the VOQ tail drop threshold for each interface, run the "show platform sand voq tail-drop" command.

UNEXPSEQNUM: Congestion message with un-expected sequence number is received%

Severity: Warning

Explanation: Reinitializing LANZ processor state

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

VRF_NOT_EXIST: LANZ streaming VRF %s has been deleted

Severity: Warning

Explanation: Configure the required VRF for the streaming to happen

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

2.130 RADIUS Messages

DYN_AUTH_REQUEST_AUTHENTICATION_FAILED: Dynamic Authorization request received from server '%s' failed %s validation.

Severity: Error

Explanation: Packet or Message authenticator validation failed for Dynamic Authorization request

Recommended Action: Check the shared secret configured.

UNEXPECTED_FRAMED_IP_ADDRESS: Supplicant with MAC %s on port %s uses IP address %s, different from server-specified address %s

Severity: Info

Explanation: A supplicant is using a different IP address from the one sent by the RADIUS server

Recommended Action: No action is required – this message is for information only.

2.131 RADIUSPROXY Messages

INVALID_RADIUS_SERVER: RADIUS server "%s" could not be used

Severity: Warning

Explanation: The configuration contains a RADIUS server that Failed DNS resolution and cannot be used.

Recommended Action: Correct the RADIUS server configuration.

NO_RADIUS_SERVER_CONFIGURED: No valid RADIUS servers configured for server group "%s"

Severity: Error

Explanation: The configuration contains a server group that is not associated with any valid RADIUS servers.

Recommended Action: Add at least one RADIUS server to the server group.

NO_SERVERGROUP_CONFIGURED_FOR_CLIENTGROUP: No RADIUS server group configured for client group "%s"

Severity: Error

Explanation: An attempt to proxy client request failed because there is no RADIUS server group configured

Recommended Action: Add a RADIUS server group to the configuration

UNKNOWN_RADIUS_SERVER: RADIUS server group "%s" references unknown server "%s"

Severity: Error

Explanation: The RADIUS server group contains a server that was not configured using the 'radius-server host' Command.

Recommended Action: Configure the unknown server or remove it from the server group.

2.132 RCF Messages

COMPILATION_ERROR: The RCF code in the running-config failed to compile.

Severity: Error

Explanation: The RCF code in the running-config failed to compile. When this occurs, RCF functions may not be applied on the affected router. For more details, run 'show router rcf errors'.

Recommended Action: Revert to a previously working version of RCF code

UNEXPECTED_COMPILATION_ERROR: An unexpected processing error occurred while compiling the RCF configuration.

Severity: Error

Explanation: An unexpected processing error occurred while compiling the RCF configuration. When this occurs, no RCF functions will be applied on the affected router.

Recommended Action: Revert to a previously working version of RCF config, and report this error to Arista's customer support team.

2.133 RECOVERY Messages

POLICY_ERROR: Recovery policy condition indicating error reached

Severity: Error

Explanation: The system will be rebooted in an attempt to recover from this error.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POLICY_REPEAT_ERROR: Recovery policy condition indicating error reached a second time after reboot

Severity: Error

Explanation: Rebooting did not resolve the error, no further attempt will be made.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

2.134 REDUNDANCY Messages

CONFIG_SYNC: %s synchronized from Supervisor %d (active) to Supervisor %d (standby)

Severity: Info

Explanation: The above configuration was successfully synchronized from the active supervisor to the standby supervisor.

Recommended Action: No action is required – this message is for information only.

CONFIG_SYNC_FAILED: Failed to synchronize %s from Supervisor %d (active) to Supervisor %d (standby).

Reason: %s

Severity: Warning

Explanation: The active supervisor failed to synchronize the above configuration to the standby supervisor. Active supervisor will keep retrying to synchronize the configuration until successful. The above configuration can be manually copied to the standby supervisor to ensure proper operation on switchover.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CONFIG_SYNC_SUCCEEDED: Synchronized %s from Supervisor %d (active) to Supervisor %d (standby)

Severity: Warning

Explanation: After the previous synchronization failure, the active supervisor persistently retried and was able to synchronize the above configuration to standby supervisor.

Recommended Action: No action is required – this message is for information only.

ISSHD_RESTART_FAILED: sshd service failed to restart on Supervisor %d (standby).

Severity: Notice

Explanation: The internal sshd service that runs on standby supervisor has stopped unexpectedly. The service monitoring agent failed to restart it.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

ISSHD_RESTART_SUCCEEDED: sshd service has restarted on Supervisor %d (standby).

Severity: Notice

Explanation: The internal sshd service that runs on standby supervisor has stopped unexpectedly. The service monitoring agent has restarted it.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

ISSHD_STOP_FAILED: stopping sshd service failed on Supervisor %d (active).

Severity: Error

Explanation: The internal sshd service should not run on active supervisor. The service monitoring agent failed to stop it.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

IS_ACTIVE: Supervisor became active

Severity: Notice

Explanation: This supervisor has become active. Now it will take over the management interface and control the linecards and fabric cards.

Recommended Action: No action is required – this message is for information only.

IS_DISABLED: Supervisor became disabled

Severity: Critical

Explanation: This supervisor has been disabled, which means that it will not become active even if the active supervisor fails. Now the switch is running with one supervisor less.

Recommended Action: If you did not deliberately disable the supervisor, contact your support.

IS_STANDBY: Supervisor became standby

Severity: Notice

Explanation: This supervisor has become standby. Now it is ready to become active, if the active supervisor fails.

Recommended Action: No action is required – this message is for information only.

OTHER_ACTIVE: Other supervisor became active

Severity: Notice

Explanation: The other supervisor has become active. Now it will take over the management interface and control the linecards and fabric cards.

Recommended Action: No action is required – this message is for information only.

OTHER_DISABLED: Other supervisor became disabled

Severity: Critical

Explanation: The other supervisor has been disabled, which means that it will not become active even if the active supervisor fails. Now the switch is running with one supervisor less.

Recommended Action: If you did not deliberately disable the other supervisor, contact your support.

OTHER_DISABLED_UNTIL_SYSTEM_UPGRADE: Supervisor %s has been disabled until a system upgrade is performed on %s.

Severity: Critical

Explanation: The other supervisor has been disabled until its software is upgraded. It may become active if the active supervisor fails or is power cycled.

Recommended Action: Upgrade the software on the affected supervisor

OTHER_STANDBY: Other supervisor became standby

Severity: Notice

Explanation: The other supervisor has become standby. Now it is ready to become active, if the active supervisor fails.

Recommended Action: No action is required – this message is for information only.

PROTOCOL_CHANGE: Operational redundancy protocol changed to %s

Severity: Notice

Explanation: The operational redundancy protocol changed to %s due to conditions on the standby supervisor.

Recommended Action: No action is required – this message is for information only.

RESTARTING_SOFTWARE: Restarting software on Supervisor %d (standby)

Severity: Notice

Explanation: Software on the standby supervisor is being restarted. This is necessary when a new startup-config is received from the active supervisor while in Route Processor Redundancy Mode. The standby supervisor may temporarily stop participating in the election protocol.

Recommended Action: No action is required – this message is for information only.

SWITCHOVER_COMPLETE: Stateful switchover is complete

Severity: Notice

Explanation: This supervisor has completed stateful switchover.

Recommended Action: No action is required – this message is for information only.

SWITCHOVER_START: Stateful switchover started

Severity: Notice

Explanation: This supervisor has initiated stateful switchover.

Recommended Action: No action is required – this message is for information only.

TIME_SYNC: Monotonic Time Synchronization failed

Severity: Notice

Explanation: Monotonic Time synchronization failed. This could be either due to the standby supervisor not being able to communicate with the active supervisor or due to the standby supervisor's monotonic time being ahead in time by more than a second. The sync operation will continue to be retried.

Recommended Action: No action is required – this message is for information only.

2.135 RIB Messages

FORCED_DROP_ROUTE: Route %s from protocol %s in VRF %s was forced as drop after %i seconds of trying.
Reason: %s.

Severity: Notice

Explanation: This route was forced in FIB as a drop route after being retried. This route is in an invalid state.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

IGP_CONVERGED: IGP protocols in VRF %s have converged and their routes are in FIB

Severity: Notice

Explanation: IGP protocols(say OSPF) have converged and routes are now available in FIB. Besides IGP protocols, Rib agent is also done with initial processing of all connected and static routes

Recommended Action: No action is required – this message is for information only.

MAX_PATHS_EXCEEDED: Route %s has too many paths, using only %d

Severity: Error

Explanation: The RIB agent has attempted to allocate an ECMP route with more paths than the maximum supported by the hardware. The extra paths have been discarded from the route.

Recommended Action: No action is required – this message is for information only.

ROUTE_READY: Routes in VRF %s are ready and available in FIB

Severity: Notice

Explanation: With routes now being ready in FIB, forwarding agent will start syncing them down to hardware without fear of purging any routes had router undergone graceful restart(say Rib restart/hitless system upgrade)

Recommended Action: No action is required – this message is for information only.

ROUTE_READY_TIMEOUT: Route types in VRF %s that are not converged: %s.

Severity: Notice

Explanation: Rib agent timed out waiting for one or more routing protocols to converge. During hitless reload or stateful switchover this may lead to routes being deleted from hardware temporarily until the routing protocols converge.

Recommended Action: No action is required – this message is for information only.

SECURITY_FAILED_TO_INITIALIZE_PRNG: Failed to initialize the PRNG: %s. Cryptographic functions requiring hardware generated random numbers will be on hold until the PRNG is ready.

Severity: Error

Explanation: Cryptographic functions requiring hardware generated random numbers will be on hold until the PRNG is ready.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TOPODBEXPORT_MAX_NETWORK_ROUTERS_EXCEEDED: Max routers (%u) exceeded for %s network %s!%s - %s, %s

Severity: Warning

Explanation: The network router was not added to the exported LSDB because the extra router would exceed the table limit. CSPF will continue with an inconsistent LSDB.

Recommended Action: If the network topology can be reduced, disable traffic-engineering, restart the Rib agent, and re-enable traffic-engineering.

TOPODBEXPORT_MAX_ROUTER_NEIGHBORS_EXCEEDED: Max neighbors (%u) exceeded for %s router %s - %s, %s

Severity: Warning

Explanation: The router neighbor was not added to the exported LSDB because the extra neighbor would exceed the table limit. CSPF will continue with an inconsistent LSDB.

Recommended Action: If the network topology can be reduced, disable traffic-engineering, restart the Rib agent, and re-enable traffic-engineering.

TOPODBEXPORT_MAX_ROUTER_PREFIXES_EXCEEDED: Max prefixes (%u) exceeded for %s router %s - %s, %s

Severity: Warning

Explanation: The router prefix was not added to the exported LSDB because the extra prefix would exceed the table limit. CSPF will continue with an inconsistent LSDB.

Recommended Action: If the network topology can be reduced, disable traffic-engineering, restart the Rib agent, and re-enable traffic-engineering.

2.136 ROUTING Messages

ADJ_SHARING_MODE_CHANGE: Operating adj sharing mode for agent changed to %d

Severity: Info

Explanation: Adj sharing operating mode changed. Restarting agent

Recommended Action: No action is required – this message is for information only.

CBF_HW_RESOURCE_FULL: Hardware resources are insufficient to program all class based forwarding FEC override mappings.

Severity: Error

Explanation: The switch is unable to program all class based forwarding FEC override mappings due to insufficient hardware resources.

Recommended Action: Reconfigure or remove unused class based forwarding FEC override mappings.

CBF_HW_RESOURCE_NORMAL: All class based forwarding FEC override mappings are programmed in hardware.

Severity: Error

Explanation: The switch was able to program all class based forwarding FEC override mappings in the hardware.

Recommended Action: No action is required – this message is for information only.

DATAPLANE_HITLESS_RESTART_TIMEOUT: Hitless restart of the L3 forwarding agent timed out after %d seconds. The agent will abort the restart sync process and enter normal operating mode, resulting in a possible forwarding outage.

Severity: Info

Explanation: The L3 forwarding agent failed to complete the hitless restart process in the allotted time and will abort the restart sync and immediately enter normal operating mode.

Recommended Action: No action is required – this message is for information only.

ECMP_ROUTE_MAX_PATHS_EXCEEDED: ECMP route %a has exceeded number of allowed paths.

Severity: Info

Explanation: An ecmp route has more paths than allowed by the Resilient Ecmp Feature. The extra paths will not be programmed in hardware.

Recommended Action: No action is required – this message is for information only.

ECMP_ROUTE_PATH_NOT_PROGRAMMED: Path %a not programmed for ECMP route %a

Severity: Info

Explanation: Path exceeds number of allowed paths in a resilient ecmp route. Path will not be programmed in hardware.

Recommended Action: No action is required – this message is for information only.

ECMP_TRANSIENT_STATE: Hardware resources are insufficient to program all ECMP routes

Severity: Info

Explanation: Hardware resources are insufficient to program all ECMP routes. Hence, some ECMP routes will be programmed as non-ECMP routes.

Recommended Action: No action is required – this message is for information only.

ECMP_TRANSIENT_STATE_RECOVERY: All routes and adjacencies are programmed in hardware

Severity: Info

Explanation: The switch was able to program all ECMP routes in hardware table.

Recommended Action: No action is required – this message is for information only.

EGRESS_RACL_SHARING_OVERRIDE_URPF: IPv4 Unicast RPF does not work and is disabled since egress router ACL sharing is enabled

Severity: Warning

Explanation: IPv4 Unicast RPF does not work when egress router ACL sharing is enabled. Switch to egress router ACL unshared mode for unicast RPF to be enabled again

Recommended Action: No action is required – this message is for information only.

FEC_DAMPENING_STARTED: FEC Addition Dampening Started at %d%% utilization

Severity: Info

Explanation: The switch has started dampening the FEC additions in hardware.

Recommended Action: No action is required – this message is for information only.

FEC_DAMPENING_STOPPED: FEC Addition Dampening Stopped at %d%% utilization

Severity: Info

Explanation: The switch has stopped dampening the FEC additions in hardware.

Recommended Action: No action is required – this message is for information only.

FEC_PROGRAM_ALL_CHANGE: Programming all hardware FECs configuration changed to %s

Severity: Info

Explanation: Programming all hardware FECs configuration changed. Restarting agent

Recommended Action: No action is required – this message is for information only.

FEC_RESIZING_COMPLETE: Maximum multi-path FEC size has been updated to %d via 'hardware fec multi-path maximum' or 'ip hardware fib next-hop multi-path maximum'

Severity: Warning

Explanation: All programmed FECs now fit within the requested maximum multi-path size.

Recommended Action: No action is required – this message is for information only.

FEC_RESIZING_TIMEOUT: Update of the maximum multi-path FEC size has timed out

Severity: Warning

Explanation: The process of FEC resizing exceeded the 10-minute timeout period. Not all multi-path FECs are guaranteed to be compatible with the new configured value. If the L3 feature agent still appears to be processing configuration, continue to wait for ROUTING-3-FEC_RESIZING_COMPLETE to be logged. If it does not complete after some time, an unexpected error may have occurred. This may be temporarily resolved by restarting the L3 forwarding agent or the device and waiting for reprocessing to finish.

Recommended Action: No action is required – this message is for information only.

FEC_RESOURCE_FULL: Not all FECs are programmed in hardware

Severity: Error

Explanation: The switch is unable to program all FECs due to insufficient hardware resources.

Recommended Action: Reconfigure the network to reduce the size of the FEC table(s). When the FEC table size reduces, the switch automatically programs any unprogrammed FECs in hardware.

FEC_RESOURCE_NORMAL: All FECs are programmed in hardware.

Severity: Error

Explanation: The switch was able to program all FECs in hardware.

Recommended Action: No action is required – this message is for information only.

HARDWARE_FEC_UNSUPPORTED: The FEC with adjacency key %d cannot be programmed. %s

Severity: Error

Explanation: The switch is unable to program a FEC, because the operations required for the FEC are not currently supported on this platform.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

HIERARCHICAL_FECS_MAX_LEVEL_CHANGE: Operating hierarchical FECs max level for agent changed to %d

Severity: Info

Explanation: Hierarchical FECs max level changed. Restarting agent

Recommended Action: No action is required – this message is for information only.

HIERARCHICAL_FECS_MODE_CHANGE: Operating hierarchical FECs mode for agent changed to %s

Severity: Info

Explanation: Hierarchical FECs operating mode changed. Restarting agent

Recommended Action: No action is required – this message is for information only.

HW_FAST_FAILOVER_MODE_CHANGE: Operating hardware fast failover mode for agent changed to %s

Severity: Info

Explanation: Hardware fast failover operating mode changed. Restarting agent

Recommended Action: No action is required – this message is for information only.

HW_HFEC_PLUS_URPF_MODE_CHANGE: Operating urpf plus hierarchical fec mode for agent changed to %s

Severity: Info

Explanation: Urpf plus hierarchical fec mode changed. Restarting agent

Recommended Action: No action is required – this message is for information only.

HW_MAX_PATHS_EXCEEDED: Adjacency %s has too many paths, using only %d

Severity: Error

Explanation: The switch is unable to program all paths of the route because the number of paths exceeds the maximum supported by the hardware. The extra paths have been discarded from the route.

Recommended Action: No action is required – this message is for information only.

HW_PROGRAMMED_ERROR_ACTION_CHANGE: Hardware programming error action configuration changed to %s

Severity: Info

Explanation: Hardware programming error action configuration changed. Restarting agent

Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: Hardware resources are insufficient to program all routes

Severity: Error

Explanation: The switch is unable to program all routes due to insufficient hardware resources. When the switch is unable to program routes due to insufficient hardware resources, it may drop certain packets in order to avoid potential routing loops in the network. The switch encountered this issue because the routing table exceeds the available hardware resources.

Recommended Action: To solve this issue, reconfigure the network to reduce the size of the routing table. When the routing table size reduces, the switch automatically programs any unprogrammed routes in hardware.

HW_RESOURCE_NORMAL: All routes are programmed in hardware.

Severity: Error

Explanation: The switch was able to program all the routes in the routing table, in hardware and normal hardware routing has resumed.

Recommended Action: No action is required – this message is for information only.

IPTUNNEL_HW_RESOURCE_FULL: Hardware resources are insufficient to program all IP tunnels

Severity: Error

Explanation: The switch is unable to program all tunnels due to insufficient hardware resources. When the switch is unable to program tunnels due to insufficient hardware resources, it may drop certain packets in order to avoid potential routing loops in the network. The switch encountered this issue because the number of tunnel destinations peering with this switch exceeds the size of the hardware tunnel table.

Recommended Action: To solve this issue, reconfigure the network to reduce the number of tunnel destination peering. When the tunnel table size reduces, the switch automatically programs any unprogrammed tunnels in hardware tunnel table.

IPTUNNEL_HW_RESOURCE_NORMAL: All IP tunnels are programmed in hardware.

Severity: Error

Explanation: The switch was able to program all the tunnels in the tunnel table, in hardware and normal hardware routing has resumed.

Recommended Action: No action is required – this message is for information only.

KERNEL_FWD_INTF_MTU_OUT_OF_RANGE: Kernel fwd interface MTU out of range, MTU of %d over limit of %d.

Severity: Error

Explanation: The kernel fwd interface MTU is out of range, The MTU of the kernel fwd interfaces must be less than or equal to the MTU of the txfwd interface.

Recommended Action: Reconfigure the MTU of the kernel fwd interface to be less than or equal to the MTU of the txfwd interface.

MAX_PATHS_EXCEEDED: Number of paths (%d) for adj %d higher than max supported value (%d)

Severity: Error

Explanation: The system is trying to allocate an ecmp route with more paths than the maximum allowed by the hardware. The route will be programmed to use only the maximum allowed.

Recommended Action: No action is required – this message is for information only.

MPLS_HARDWARE_ROUTE_UNSUPPORTED: The route with MPLS route key %s cannot be programmed. %s

Severity: Error

Explanation: The switch is unable to program an MPLS route because the operations required for the route are not currently supported on this platform.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

MPLS_LIB_LABEL_CONFLICT: MPLS LIB for %s uses the same input label for distinct FECs

Severity: Error

Explanation: One or more input labels are being used by a given label distribution protocol (e.g. ISIS-SR, LDP), for distinct FECs. While this situation may occur transiently during reconfiguration, it should not persist.

Recommended Action: To solve this issue, inspect the LIB for the specified protocol using `show mpls <protocol> bindings`. This will indicate that the same input label (or local binding) is used for more than one FEC. It is likely due to a misconfiguration in the network, and that will need to be resolved.

MPLS_LIB_LABEL_CONFLICT_RESOLVED: MPLS LIB for %s no longer uses the same input label for distinct FECs

Severity: Error

Explanation: One or more input labels were being used by a given label distribution protocol (e.g. ISIS-SR, LDP), for distinct FECs, but the conflict has now been resolved.

Recommended Action: No action is required – this message is for information only.

MPLS_RESOURCE_FULL: Hardware resources are insufficient to program all MPLS routes

Severity: Error

Explanation: The switch is unable to program all routes due to insufficient hardware resources. When the switch is unable to program routes due to insufficient hardware resources, it may drop certain packets.

Recommended Action: To solve this issue, reconfigure the network to reduce the size of the routing table or the number of MPLS routes. When the hardware resources is available, the switch automatically programs any unprogrammed routes in hardware.

MPLS_RESOURCE_NORMAL: All MPLS routes are programmed in hardware.

Severity: Error

Explanation: The switch was able to program all the MPLS routes in the hardware and normal hardware routing has resumed.

Recommended Action: No action is required – this message is for information only.

MPLS_VRF_LABEL_CONFLICT: VRF label %u cannot be programmed

Severity: Warning

Explanation: VRF label has configuration at multiple sources.

Recommended Action: Remove configuration for this VRF label from all but one source.

NEXT_HOP_COMBINATION_NOT_SUPPORTED: Incompatible next hops found in FEC (ID: %d). Some next hops will be removed from the programmed FEC.

Severity: Info

Explanation: Merging multiple logical FECs has resulted in incompatible next hops in the same FEC. Some of the next hops have been removed to allow the FEC to be programmed.

Recommended Action: No action is required – this message is for information only.

NO_EGRESS_RACL_SHARING_OVERRIDE_URPF: IPv4 Unicast RPF is enabled as the egress router ACL sharing is disabled.

Severity: Warning

Explanation: IPv4 Unicast RPF configuration is active again since egress router ACL sharing is disabled.

Recommended Action: No action is required – this message is for information only.

NO_ROUTE_OPTIMIZATION_OVERRIDE_URPF: IPv4 Unicast RPF is re-enabled since optimized IP route programming is not in effect

Severity: Warning

Explanation: IPv4 Unicast RPF configuration is active again since optimized IP route programming is not in effect.

Recommended Action: No action is required – this message is for information only.

PEER_CURRENTLY_UNSUPPORTED_RCF_ATTRIBUTE: The attribute '%s' is unsupported in %s RCF functions. It was used in %s() for %s (VRF %s AS %d)

Severity: Warning

Explanation: The unsupported attribute used within the named RCF is not considered during evaluation.

Recommended Action: Please use some other match clause to meet the requirement.

PERSISTENT_CONFIG_MOVED: %s is obsolete, please use %s

Severity: Error

Explanation: Persistent rib configuration in binary format in %s is not recommended, Put a plain-text list of commands in %s instead

Recommended Action: Archive the configuration using show tech-support ribd running-config > flash:old-ribd-config.txt delete the old %s, and move any configuration that EOS does not support natively to %s

POLICY_RECMP_CAPACITY_EXCEEDED: Total next hop count (%s) for policy marked RECMR routes has exceeded the configured capacity. FEC utilization may increase, because FEC sharing may not work.

Severity: Info

Explanation: If the cumulative total of all possible next hops for all routes marked for RECMR is greater than the configured capacity, then resilient FEC sharing may not work, which can increase FEC utilization.

Recommended Action: Reconfigure the policy marked RECMR capacity to be greater than the total next hop count.

RECMR_CAPACITY_EXCEEDED: Total next hop count (%s) under RECMR parent prefix %a has exceeded the parent prefix's configured capacity. FEC utilization may increase, because FEC sharing may not work.

Severity: Info

Explanation: If the cumulative total of all possible next hops for all routes falling under a given RECMR parent prefix is greater than the configured capacity for that RECMR parent prefix, then resilient FEC sharing may not work, which can increase FEC utilization.

Recommended Action: Reconfigure the RECMR parent prefix capacity to be greater than the total next hop count.

ROUTE_OPTIMIZATION_OVERRIDE_URPF: IPv4 Unicast RPF does not work and is disabled since optimized IP route programming option is configured

Severity: Warning

Explanation: IPv4 Unicast RPF does not work when optimized IP route programming is configured. Unconfigure the option for unicast RPF to be enabled again

Recommended Action: No action is required – this message is for information only.

UNSUPPORTED_AGGREGATE_ROUTE_MAP_COMMAND: Route map %s set as the Aggregate policy for VRF %s has an unsupported '%s' command

Severity: Warning

Explanation: The unsupported command used within the named route map is not considered while evaluating Aggregate policy.

Recommended Action: Please use some other match clause to meet the requirement.

UNSUPPORTED_ROUTE_MAP_COMMAND: Route map %s set as the %s policy for peer %s VRF %s in address family %s has an unsupported '%s' command

Severity: Warning

Explanation: The unsupported command used within the named route map is not considered while evaluating policy.

Recommended Action: Please use some other match clause to meet the requirement.

URPF_ALLOW_DEFAULT_MODE_ACTIVE: Unicast RPF will not ignore the default route on %s

Severity: Warning

Explanation: Unicast RPF will check against the default route

Recommended Action: Configure all interfaces with non-default strict/loose mode unicast RPF

URPF_NON_DEFAULT_MODE_ACTIVE: Unicast RPF will ignore the default route on all interfaces

Severity: Warning

Explanation: Unicast RPF will not check against the default route

Recommended Action: No action is required – this message is for information only.

URPF_NOT_READY_IP_ROUTING_DISABLED: The L3 forwarding agent is not ready to proceed with Unicast RPF %s. Warning: routing is disabled.

Severity: Error

Explanation: The L3 forwarding agent hit an issue and has indicated that it is not ready to proceed with Unicast RPF %s. Routing is now disabled for all VRFs.

Recommended Action: Routing should be manually disabled then re-enabled for VRFs that need routing enabled.

2.137 RPKI Messages

CACHE_CONNECTION_ERROR: Unable to connect to the cache server %s ('%s'): %s

Severity: Warning

Explanation: TCP connection could not be established

Recommended Action: Check the host, port, vrf, source interface configurations. Make sure cache server is configured correctly and is reachable

CACHE_CONNECTION_SUCCESS: Successfully connected to the cache server %s ('%s')

Severity: Notice

Explanation:

Recommended Action: No action is required – this message is for information only.

CACHE_ERROR: %s

Severity: Warning

Explanation: Fatal error. Connection will be re-established after the configured retry interval duration

Recommended Action: No action is required – this message is for information only.

CACHE_FLUSH: Flushing data from cache server %s ('%s'): %s

Severity: Warning

Explanation: ROAs obtained from cache are being cleared

Recommended Action: No action is required – this message is for information only.

2.138 RSVP Messages

BYPASS_AVAILABLE: %s bypass established via %s (label %d).

Severity: Info

Explanation: A fast reroute bypass tunnel is available to protect against downstream link failure.

Recommended Action: No action is required – this message is for information only.

BYPASS_INUSE: %s bypass is in use.

Severity: Info

Explanation: The fast reroute bypass tunnel is protecting against downstream link failure.

Recommended Action: No action is required – this message is for information only.

BYPASS_NODE_AVAILABLE: %s bypass to %s established via %s (label %d).

Severity: Info

Explanation: A fast reroute bypass tunnel is available to protect against downstream node failure.

Recommended Action: No action is required – this message is for information only.

BYPASS_NODE_INUSE: %s bypass to %s is in use.

Severity: Info

Explanation: The fast reroute bypass tunnel is protecting against downstream link failure.

Recommended Action: No action is required – this message is for information only.

BYPASS_NODE_NOTINUSE: %s bypass to %s is not in use.

Severity: Info

Explanation: The fast reroute bypass tunnel is no longer used to protect against downstream link failure.

Recommended Action: No action is required – this message is for information only.

BYPASS_NODE_NOT_NEEDED: %s bypass to %s removed since it is not needed.

Severity: Info

Explanation: A fast reroute bypass tunnel is down by intentional teardown because it's not needed anymore.

Recommended Action: No action is required – this message is for information only.

BYPASS_NODE_UNAVAILABLE: %s bypass to %s requested but unavailable.

Severity: Warning

Explanation: No fast reroute bypass tunnel is available to protect against downstream node failure.

Recommended Action: Create an alternate path in the topology to reach the neighbor.

BYPASS_NOTINUSE: %s bypass is not in use.

Severity: Info

Explanation: The fast reroute bypass tunnel is no longer used to protect against downstream link failure.

Recommended Action: No action is required – this message is for information only.

BYPASS_NOT_NEEDED: %s bypass removed since it is not needed.

Severity: Info

Explanation: A fast reroute bypass tunnel is down by intentional teardown because it's not needed anymore.

Recommended Action: No action is required – this message is for information only.

BYPASS_UNAVAILABLE: %s bypass requested but unavailable.

Severity: Warning

Explanation: No fast reroute bypass tunnel is available to protect against downstream link failure.

Recommended Action: Create an alternate path in the topology to reach the neighbor.

GRHR_INACTIVE: Graceful/Hitless Restart inactive.

Severity: Info

Explanation: Graceful/Hitless Restart local recovery phase is now inactive.

Recommended Action: No action is required – this message is for information only.

GR_RECOVERY: Graceful Restart local recovery phase started.

Severity: Info

Explanation: Graceful Restart local recovery phase started.

Recommended Action: No action is required – this message is for information only.

HR_RECOVERY: Hitless Restart local recovery phase started.

Severity: Info

Explanation: Hitless Restart local recovery phase started.

Recommended Action: No action is required – this message is for information only.

NEIGHBOR_GR_END: Neighbor %s graceful restart phase ended.

Severity: Info

Explanation: The neighbor has ended its current Graceful Restart phase.

Recommended Action: No action is required – this message is for information only.

NEIGHBOR_GR_RECOVERY: Neighbor %s recovery phase started.

Severity: Info

Explanation: The neighbor has entered a Graceful Restart recovery phase.

Recommended Action: No action is required – this message is for information only.

NEIGHBOR_GR_RESTART: Neighbor %s restart phase started.

Severity: Info

Explanation: The neighbor has entered a Graceful Restart restart phase.

Recommended Action: No action is required – this message is for information only.

P2MP_UNSUPPORTED_FIXED_FILTER_STYLE: PATH message for a P2MP session with extended tunnel ID %s rejected due to requesting unsupported Fixed Filter style

Severity: Warning

Explanation: A PATH message for a session with the specified extended tunnel ID has been rejected since it requested Fixed Filter style be used, and only Shared Explicit style is supported for P2MP sessions.

Recommended Action: Check that the node with the extended tunnel ID is configured to use Shared Explicit style for P2MP sessions.

SUBTUNNEL_DOWN: Sub tunnel %s to %s%%s is down

Severity: Info

Explanation: The named RSVP sub tunnel is down.

Recommended Action: No action is required – this message is for information only.

SUBTUNNEL_UP_USING_PRIMARY: Sub tunnel %s to %s%%s is up using primary path

Severity: Info

Explanation: The named RSVP sub tunnel is up and currently using the primary path.

Recommended Action: No action is required – this message is for information only.

SUBTUNNEL_UP_USING_SECONDARY: Sub tunnel %s to %s%%s is up using secondary path

Severity: Info

Explanation: The named RSVP sub tunnel is up and currently using the secondary path.

Recommended Action: No action is required – this message is for information only.

TUNNEL_DOWN: Tunnel %s to %s%%s is down

Severity: Info

Explanation: The named RSVP tunnel is down.

Recommended Action: No action is required – this message is for information only.

TUNNEL_UP_USING_PRIMARY: Tunnel %s to %s%%s is up using primary path

Severity: Info

Explanation: The named RSVP tunnel is up and currently using the primary path.

Recommended Action: No action is required – this message is for information only.

TUNNEL_UP_USING_SECONDARY: Tunnel %s to %s% is up using secondary path

Severity: Info

Explanation: The named RSVP tunnel is up and currently using the secondary path.

Recommended Action: No action is required – this message is for information only.

TUNNEL_UP_USING_SUBTUNNEL: Tunnel %s to %s% is up using %d %s

Severity: Info

Explanation: The named RSVP tunnel is up and currently using one or more sub tunnels.

Recommended Action: No action is required – this message is for information only.

2.139 SAND Messages

ACL_EGRESS_COUNTERS_EXHAUSTED: Egress ACL counter indices (%s) are exhausted (%s).

Severity: Info

Explanation: Configured egress ACL rules exceeds the maximum egress ACL counterindices supported by the Hardware.

Recommended Action: No action is required – this message is for information only.

AGENT_EXITING: Agent for %s is exiting and will restart.

Severity: Warning

Explanation: Sand agent is exiting and will restart.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CARD_INIT_FAILED: Initialization of %s failed because of a software error.

Severity: Error

Explanation: In some rare cases, a linecard or fabric card cannot be initialized after a switchover because of a software condition.

Recommended Action: Turn off and then turn on the power for the card that has failed to initialize.

CBF_OVERRIDE_IGNORED: CBF cannot be programmed in its current configuration with the current TCAM profile

Severity: Error

Explanation: The switch is unable to program CBF overrides due to an incompatible tcam profile

Recommended Action: Update your TCAM profile to use CBF

CHIP_LEVEL_STORM_CONTROL_NOT_SUPPORTED_IN_NON_ARAD_CHIPS: Chip level unknown-unicast storm-control not supported on %s (%s switch chip). Similar functionality may be achieved using per-port storm-control instead.

Severity: Warning

Explanation: No description needed.

Recommended Action: No action is required – this message is for information only.

COUNTER_DMA_ERROR: Counter DMA error (%d) on FIFO %d occurred for %s

Severity: Error

Explanation: An error has happened while reading queue counters. This may result in lost queue counter updates.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

COUNTER_INTF_MIB_MISPROGRAMMED: Misprogrammed MIB counters for interface %s

Severity: Warning

Explanation: The hardware programming for interface MIB counters is invalid. This may cause incorrect counters in 'show interfaces counters'.

Recommended Action: Consider restarting the SandCounters agent to restore the proper programming ('agent SandCounters terminate')

DDR_BIST_FAILED: Switch ASIC %d, DRAM %d failed DRAM BIST

Severity: Error

Explanation: The Arad switch ASIC failed DRAM BIST test. Please contact support.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

DDR_NO_INFO: Switch ASIC %d, DDR memory bank settings not available.

Severity: Error

Explanation: The switch ASIC %d cannot be initialized without information about DDR memory banks.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

DMA_DEVICE_STATE_ERROR: %s expected state: %s, actual state: %s

Severity: Error

Explanation: Device up/down state changed unexpectedly. Forwarding agent restarted in order to recover from this error.

Recommended Action: No action is required – this message is for information only.

DRAM_INIT_FAILURE: DRAM %d of %s failed initialization. It did not read back what was written to it.

Severity: Error

Explanation: After initializing a Petra's DRAMs, software verifies that it can write and read back from them. If the value read back is not what was written to the DRAM, software exits and retries the initialization. This is normally a transient condition, and the next initialization succeeds.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

DRAM_RETUNE: Retune operation on DRAM Channel %d on %s completed

Severity: Info

Explanation: Software successfully completed an automatic retune operation on a DRAM channel to maintain the health of the DRAM interface between the forwarding chip and DRAM. This can incur up to 4ms of traffic loss.

Recommended Action: No action is required – this message is for information only.

EGRESS_CONSISTENT: Egress buffer counters on %s have returned to normal, and the egress queues are operating normally.

Severity: Error

Explanation: Egress counters have returned to normal. The chip is operating normally.

Recommended Action: No action is required – this message is for information only.

EGRESS_EXEM_RESOURCE_FULL: Hardware resources are insufficient to program all VXLAN egress filtering rules needed for the VXLAN DCI Gateway Multihoming feature

Severity: Error

Explanation: The switch is unable to program all VXLAN egress filtering rules for VXLAN DCI Gateway Multihoming feature due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the VXLAN DCI Gateway peer vtep scale on the switch.

EGRESS_EXEM_RESOURCE_NORMAL: All VXLAN egress filtering rules needed for the VXLAN DCI Gateway Multihoming feature are programmed in hardware

Severity: Error

Explanation: The switch was able to program all VXLAN egress filtering rules for VXLAN Gateway Multihoming feature in hardware

Recommended Action: No action is required – this message is for information only.

EGRESS_INCONSISTENT: Egress buffer counters on %s are inconsistent with the number of available buffers and/or descriptors. The egress queues may be stuck, causing traffic sent to this device to be dropped.

Severity: Error

Explanation: Egress counters are showing more buffers or descriptors than actually exist.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EGRESS_SFLOW_HW_RESOURCE_FULL: Egress sFlow is inactive because the maximum number of monitor sessions have already been configured

Severity: Error

Explanation: When the maximum number of monitor sessions have been configured, egress sFlow cannot be programmed into hardware.

Recommended Action: Reduce the number of configured monitor sessions.

EGRESS_SFLOW_HW_RESOURCE_NORMAL: Egress sFlow has been programmed in hardware

Severity: Error

Explanation: The switch was able to program egress sFlow in hardware.

Recommended Action: No action is required – this message is for information only.

EGRESS_SFLOW_INTERFACE_NORMAL: Egress sFlow on interface %s has been programmed in hardware

Severity: Error

Explanation: The switch was able to program interface for egress sFlow

Recommended Action: No action is required – this message is for information only.

EGRESS_SFLOW_INTERFACE_NOT_ACTIVE: Egress sFlow on interface %s is not active while the interface is used as a source for egress mirroring

Severity: Error

Explanation: When an interface is configured as a source for egress mirroring, egress sFlow will not work on the same interface

Recommended Action: Remove the egress mirroring configuration on this interface

EGRESS_SFLOW_INTERFACE_RECIRC_PORT_NORMAL: Egress sFlow interface %s configured on %s.%d has been programmed in hardware

Severity: Error

Explanation: The switch was able to program interface for egress sFlow

Recommended Action: No action is required – this message is for information only.

EGRESS_SFLOW_INTERFACE_RECIRC_PORT_NOT_AVAILABLE: No recirculation port available for egress sFlow interface %s on %s.%d

Severity: Error

Explanation: Each FAP and core with a configured egress sFlow interface requires a recirculation port for sampling to occur on that interface

Recommended Action: A recirculation port must be freed on this FAP and core

ELK_ERROR: %s External lookup engine interface is down, reboot or reset linecard to recover

Severity: Error

Explanation: If power cycle does not fix the problem, it may be bad hardware.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EM_RESOURCE_FULL: Hardware resources are insufficient to program all entries in %s table on %s

Severity: Error

Explanation: The switch is unable to program all the entries in the table due to insufficient hardware resources.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EM_RESOURCE_NORMAL: All entries in %s table are programmed in hardware on %s

Severity: Error

Explanation: The switch was able to program all the entries in hardware.

Recommended Action: No action is required – this message is for information only.

ERROR_OCCURRED: %s '%s' occurred. New=%d, Total=%d

Severity: Error

Explanation: An unusual event has been detected.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

ESEM_RESOURCE_FULL: Hardware resources are insufficient to program all entries in ESEM table.

Severity: Error

Explanation: The switch is unable to program all sub-intfs or vlan mappings due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of sub-intfs or vlan mappings in the switch.

ESEM_RESOURCE_NORMAL: Hardware resources to program sub-interfaces or vlan mappings are recovered.

Severity: Error

Explanation: The switch was able to program all sub-intfs/vlan mappings in hardware.

Recommended Action: No action is required – this message is for information only.

ESI_EVPN_MPLS_HW_RESOURCE_FULL: Hardware resources are insufficient to program all ESI filter routes

Severity: Error

Explanation: The switch is unable to program all ESI filter routes due to insufficient hardware resources. EVPN MPLS multi-homing might not work as expected.

Recommended Action: Free up some TCAM banks or ACLs to get TCAM resources to accommodate the ESI filters

ESI_EVPN_MPLS_HW_RESOURCE_NORMAL: All ESI filter routes are programmed in hardware

Severity: Error

Explanation: The switch was able to program all the ESI filter routes in the hardware.

Recommended Action: No action is required – this message is for information only.

EVEC_STATE_INVALID: Detected an inconsistency with Egress VLAN Editing

Severity: Warning

Explanation: There is an inconsistency with one or more entry in the Egress VLAN Editing tables, this might not cause any issues, restarting SandTunnel agent may fix this

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EVEC_STATE_NORMAL: Egress VLAN Editing has recovered

Severity: Warning

Explanation: Any inconsistencies in the Egress VLAN Editing tables have been resolved

Recommended Action: No action is required – this message is for information only.

EXPECTED_AGENT_EXIT: Agent for %s will exit and restart because %s.

Severity: Info

Explanation: Sand agent will exit and restart. This may result in a brief traffic outage.

Recommended Action: No action is required – this message is for information only.

EXPECTED_FULL_RESET: Reset ingress and egress blocks of switch chip %s. This is expected as part of config change.

Severity: Info

Explanation: Software reinitialized the ingress and egress blocks of the chip to apply some configuration. This causes minor traffic loss.

Recommended Action: No action is required – this message is for information only.

FABRICSERDES_LINK_FAILED: SERDES %s failed to link up with SERDES %s:%d

Severity: Warning

Explanation: The specified SERDES in the system has failed to synchronize and link up with the peer SERDES. This link will not be used for sending and receiving traffic anymore. This may affect switching throughput on a fully-loaded system

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FABRIC_CAPACITY_ABOVE_THRESHOLD: Fabric capacity for ports on %s increased to %d (Threshold %d%%)

Severity: Info

Explanation: Sufficient fabric links connected to Fap are operational.

Recommended Action: No action is required – this message is for information only.

FABRIC_CAPACITY_BELOW_THRESHOLD: Fabric capacity for ports on %s reduced to %d%% (Threshold %d%%)

Severity: Warning

Explanation: Fabric capacity went below configured threshold due to insufficient operational fabric links. Front panel ports may not be able to sustain line rate traffic.

Recommended Action: No action is required – this message is for information only.

FABRIC_DMA_ERROR: DMA operation of multicast table on %s failed with %s error.

Severity: Error

Explanation: DMA operation of the given table failed on the specified Fabric card ASIC.

Recommended Action: This might indicate a potential hardware issue in the specified Fabric. Try powering off and powering back on the Fabric card using the configuration command '[no] power enable module Fabric<n>'. If the problem persists, contact your support representative.

FABRIC_FIFO_SIZE_ERROR: %s, serdes %s, %s FIFO size out of range, size=%d, max allowed size=%d.

Severity: Error

Explanation: An unusual event has been detected.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FABRIC_INTERRUPT_OCCURRED: FMAC TX FDRC CRC interrupt detected on %s (count %d). %s

Severity: Error

Explanation: Fabric card needs to be shutdown if error persists.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FABRIC_LINKS_DISABLED: Fabric links %s are disabled due to persistent packet reassembly errors

Severity: Error

Explanation:

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

FABRIC_MCAST_TABLE_INIT_TIMEOUT: Fabric Chip %s timed-out during initialization of multicast tables.

Severity: Warning

Explanation: The multicast tables in the specified fabric chip were not properly initialized before enabling traffic to be switched by the fabric chip. This may result in loss of multicast traffic during system boot-up and fabric agent restart.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FABRIC_NOT_PRESENT: %s can no longer access the switching fabric, stopping all traffic.

Severity: Error

Explanation: The chassis's fabriccards have been removed, or are not working. The chassis must have working fabriccards for traffic to forward.

Recommended Action: Reinsert the fabriccards.

FABRIC_REMOVED_IN_MIXED_SYSTEM: %s is removed. All fabric cards should be powered on for a mixed chip system to avoid fabric capacity reduction.

Severity: Warning

Explanation: Removing a fabric card in the mixed chip system could cause the fabric capacity to drop below the configured threshold. Front panel ports may not be able to sustain line-rate traffic.

Recommended Action: Reinsert the fabriccards.

FABRIC_REQUEST_AUDIT: Request audit of switch fabric.

Severity: Info

Explanation: Switch fabric audit was requested by CLI command.

Recommended Action: No action is required – this message is for information only.

FLEXROUTE_COMPRESSED_CONFIG_IGNORED: Compressed prefix length %d is being ignored

Severity: Warning

Explanation: The prefix length cannot be compressed due to incompatible TCAM profile

Recommended Action: Please configure the "flex-route" feature in your TCAM profile

FPGA_PARITY_ERROR: Corrino memory parity errors occurred in %s

Severity: Error

Explanation: Corrino memory parity errors have been detected.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

GLEM_HW_RESOURCE_FULL: Insufficient resources to allocate an outlif to program an additional Tap Aggregation config.

Severity: Warning

Explanation: Recently added Tap Aggregation config may not be operational.

Recommended Action: Remove an existing Tap Aggregation config to release an outlif.

GRE_DECAP_IP_CONFLICT: Conflicting GRE tunnel interface and decap-group for decap IP address %s.

Severity: Warning

Explanation: decap-group might not work as expected.

Recommended Action: No action is required – this message is for information only.

GRE_RATELIMIT_CHIP_HW_LIMIT_EXCEEDED: Rate limiting configuration on mirror to GRE traffic with mirroring session %s on interface %s failed due to lack of queuing hardware resources shared with shaped subinterfaces on %s.Core%d.

Severity: Error

Explanation: If shaping is removed on subinterfaces on the same core to address this, it is required to remove and reapply mirror to GRE rate limiting configuration in order for it to take effect.

Recommended Action: No action is required – this message is for information only.

GRE_RATELIMIT_GLOBAL_HW_LIMIT_EXCEEDED: Rate limiting configuration on mirror to GRE traffic with mirroring session %s on interface %s failed due to system hardware limit of resources shared with shaped subinterfaces.

Severity: Error

Explanation: If shaping is removed on subinterfaces to address this, it is required to remove and reapply mirror to GRE rate limiting configuration in order for it to take effect.

Recommended Action: No action is required – this message is for information only.

GTIMER_ACTIVATED: GTimer triggered on block %s, on %s

Severity: Warning

Explanation: Some counters within the block may have incorrect values

Recommended Action: No action is required – this message is for information only.

GTIMER_DEACTIVATED: GTimer deactivated after being triggered on block %s, on %s

Severity: Warning

Explanation: Some counters within the block may have been affected

Recommended Action: No action is required – this message is for information only.

HALOFPGA_CRC_ERROR: %s detected correctable CRC error

Severity: Warning

Explanation: Some traffic may be dropped

Recommended Action: No action is required – this message is for information only.

HALOFPGA_SEU_ERROR: %s detected uncorrectable CRC error

Severity: Error

Explanation: Reboot or reset linecard

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

HASH_EXTENDED_NOT_PROGRAMMED: Feature hash extended is not supported in the TCAM profile programmed on %s.

Severity: Error

Explanation: Command "load-balance sand hash extended" had no effect on %s.

Recommended Action: Please use a TCAM profile that supports this feature.

HASH_EXTENDED_PROGRAMMED: TCAM profile programmed on %s now supports feature hash extended.

Severity: Error

Explanation: Command "load-balance sand hash extended" is now applied on %s.

Recommended Action: No action is required – this message is for information only.

HASH_PRESET_ON_MIXED_FAATYPE_SYSTEM: Uniform hashing may not be achieved using hashing preset

Severity: Warning

Explanation: This system has different types of chips. Since different types of chips have different hash functions, uniform hashing may not be achieved by setting the hashing preset for the system.

Recommended Action: No action is required – this message is for information only.

HASH_REPLACEMENT_NOT_PROGRAMMED: Feature hash replacement is not supported in the TCAM profile programmed on %s.

Severity: Error

Explanation: Command "load-balance sand hash replacement" had no effect on %s.

Recommended Action: Please use a TCAM profile that supports this feature.

HASH_REPLACEMENT_PROGRAMMED: TCAM profile programmed on %s now supports feature hash replacement.

Severity: Error

Explanation: Command "load-balance sand hash replacement" is now applied on %s.

Recommended Action: No action is required – this message is for information only.

HW_READ_WRITE_IGNORED: Hardware read or write on switch chip %d was ignored due to invalid parameters

Severity: Error

Explanation: A request was made to read or write a hardware table, but it gave an invalid index, as a result this request was ignored.

Recommended Action: No action is required – this message is for information only.

INCONSISTENT_CHIP: Inconsistent chip revisions detected on %s.

Severity: Error

Explanation: This linecard has inconsistent chip revisions. It indicates a manufacturing defect.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

INGRESS_RESET: Reset ingress blocks of switch chip %s.

Severity: Warning

Explanation: Software re-initialized the ingress blocks of the chip, causing minor traffic loss.

Recommended Action: No action is required – this message is for information only.

INGRESS_SFLOW_SUBINTF_CONFLICT: Ingress sFlow is inactive on subinterfaces of %s because it is already enabled on the parent interface.

Severity: Warning

Explanation: If Ingress sFlow is enabled on both the parent interface and any of its subinterfaces, it stays active on the parent interface and inactive on the subinterfaces. Disable ingress sFlow on the parent interface or its subinterfaces to avoid the conflict.

Recommended Action: No action is required – this message is for information only.

INGRESS_SFLOW_SUBINTF_HW_RESOURCE_FULL: Ingress sFlow on subinterfaces is inactive because the maximum number of monitor sessions have already been configured

Severity: Error

Explanation: When the maximum number of monitor sessions have been configured, ingress sFlow on subinterfaces cannot be programmed into hardware.

Recommended Action: Reduce the number of configured monitor sessions.

INGRESS_SFLOW_SUBINTF_HW_RESOURCE_NORMAL: Ingress sFlow on subinterfaces is now active

Severity: Error

Explanation: The switch was able to program ingress sFlow on subinterfaces in hardware.

Recommended Action: No action is required – this message is for information only.

INGRESS_SFLOW_SUBINTF_NO_CONFLICT: Ingress sFlow is no longer in conflict with parent interface %s and its subinterfaces

Severity: Warning

Explanation: The ingress sFlow configuration is no longer enabled on both the parent interface and its subinterfaces.

Recommended Action: No action is required – this message is for information only.

INIT_FAILED: Initialization of %s failed due to %s.

Severity: Error

Explanation: The initialization of the switch hardware forwarding agent on this card failed. This could just be an intermittent problem and it will work next time, or it could be bad hardware.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

INIT_SUCCEEDED: Initialization of %s switch asics succeeded.

Severity: Info

Explanation: The switch asics have been successfully initialized, and are operating normally.

Recommended Action: No action is required – this message is for information only.

INIT_TOO_LONG: %s has waited too long for %s during initialization. Exiting.

Severity: Error

Explanation: The card has taken longer than expected to initialize. Exiting and retrying

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

INTERFACE_HW_RESOURCE_EXHAUSTED: No resources are available to configure interface %s

Severity: Error

Explanation: The maximum active interfaces limit for this system has been exceeded. The system will errdisable any interfaces that do not have sufficient resources. To resolve this issue, please reduce the number of active interfaces to within specification and restart SandFapNi agent.

Recommended Action: Reduce the number of active interfaces and restart the SandFapNi agent

INTERNAL_LAG_HW_RESOURCE_FULL: Hardware resources are insufficient to program Port-channel (%s) for internal lag client (%s).

Severity: Error

Explanation: The switch is unable to program Port-channel for internal lag due to insufficient hardware resources.

Recommended Action: Please check 'show platform fap lag' for current resource allocation. To free resources, remove configured port channels or internally allocated port channels.

INTERNAL_LAG_HW_RESOURCE_NORMAL: Port-channel hardware ID is available for internal lag clients

Severity: Error

Explanation: The switch was able to program Port-channel in the hardware.

Recommended Action: No action is required – this message is for information only.

INTERRUPT_OCCURRED: Interrupt %s on %s. %s

Severity: Error

Explanation: Parity/Ecc errors have been detected in hardware. Most of these errors will be corrected by software

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

IN_LIF_PROTECTION_POINTER_EXHAUSTED: All available protection pointer indexes are used.

Severity: Warning

Explanation: Packets may leak through interfaces while modifying ACLs.

Recommended Action: Reconfigure your network to reduce the number of tunnels or sub-intfs in the switch.

IPV6_ROUTING_OVERFLOW: %s is unable to fit all the ipv6 routes in hardware due to lack of %s. All ipv6 routed traffic will be dropped.

Severity: Error

Explanation: All ipv6 routed traffic will be dropped due to lack of hardware resources.

Recommended Action: Reconfigure your network.

IPV6_ROUTING_OVERFLOW_RECOVERY_COMPLETED: %s recovered from ipv6 routing overflow.

Severity: Error

Explanation: All ipv6 routes have been re-added.

Recommended Action: No action is required – this message is for information only.

IPV6_ROUTING_OVERFLOW_RECOVERY_STARTED: %s is starting to recover from ipv6 routing overflow.

Severity: Error

Explanation: All ipv6 routes are being re-added.

Recommended Action: Reconfigure your network if ipv6 routing overflow persists.

IRR_MCDB_PARITY_ERROR_CORRECTED: Parity error in the IRR MCDB hardware block on %s corrected by full chip reset

Severity: Warning

Explanation: Software re-initialized the blocks of the chip, causing minor traffic loss.

Recommended Action: No action is required – this message is for information only.

ISEMA_RESOURCE_FULL: Hardware resources are insufficient to program all entries in ISEM-A table.

Severity: Error

Explanation: The switch is unable to program all tunnels or sub-intfs or vlan mappings due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of tunnels or sub-intfs or vlan mappings in the switch.

ISEMA_RESOURCE_NORMAL: Hardware resources to program tunnels or sub-interfaces or vlan mappings are recovered.

Severity: Error

Explanation: The switch was able to program all tunnels/sub-intfs/vlan mappings in hardware.

Recommended Action: No action is required – this message is for information only.

ISEMB_RESOURCE_FULL: Hardware resources are insufficient to program all entries in ISEM-B table.

Severity: Error

Explanation: The switch is unable to program all tunnels or sub-intfs or vlan mappings due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of tunnels or sub-intfs or vlan mappings in the switch.

ISEMB_RESOURCE_NORMAL: Hardware resources to program tunnels or sub-interfaces or vlan mappings are recovered.

Severity: Error

Explanation: The switch was able to program all tunnels/sub-intfs/vlan mappings in hardware.

Recommended Action: No action is required – this message is for information only.

ISOLATED_FAP_DETECTED: %s has no active links to fabric. See 'show platform fap %s fabric detail' for more information.

Severity: Error

Explanation: Fap with no fabric links can lead to traffic drops

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

LAG_MODE_NOT_SUPPORTED: The configured LAG mode %s is not supported on this system. Defaulting to LAG mode %s.

Severity: Info

Explanation: Certain LAG modes are not supported on all systems.

Recommended Action: Change which LAG mode is configured to the desired supported mode and reboot the system.

LOCAL_VTEP_ADDRESS_HW_RESOURCE_FULL: Hardware resources are insufficient to program local VTEP address %s

Severity: Error

Explanation: The switch is unable to program local VTEP address. VXLAN forwarding will not function as expected.

Recommended Action: Remove decap-group IPs to free up hardware resources.

LOCAL_VTEP_ADDRESS_HW_RESOURCE_NORMAL: Hardware resources are sufficient to program local VTEP address %s

Severity: Error

Explanation: The switch is able to program local VTEP address. VXLAN forwarding will function as expected.

Recommended Action: No action is required – this message is for information only.

MCAST_BOUNDARY_UNSUPPORTED_ERROR: Multicast boundary is not supported in the current platform.

Severity: Error

Explanation: A multicast boundary is configured but is currently not supported by the platform. The configuration will be ignored.

Recommended Action: To avoid seeing this error again, remove all "ip multicast boundary" commands from your configuration file

MCAST_INGRESS_REPLICATION_FILTER_INVALID_IP_RULE: IP access list is configured with other than destination rule.

Severity: Warning

Explanation: Only destination IP and mask is supported in ingress replication filter.

Recommended Action: To avoid seeing this error again, configure access list with rules containing only destination and destination mask.

MCAST_INGRESS_REPLICATION_FILTER_IP_SOURCE_NOT_SUPPORTED: IP access list is configured with Non zero IP source rule.

Severity: Warning

Explanation: Source IP in IP access list rule will not take effect in ingress replication filter.

Recommended Action: To avoid seeing this error again, configure access list with rules containing only destination and destination mask.

MCAST_INGRESS_REPLICATION_LIMIT_EXCEEDED: Configured maximum ingress replications (%d) higher than that allowed by the configured buffer limit

Severity: Warning

Explanation: The ingress replication maximum is higher than the configured buffer limit allows. Please modify either the maximum ingress replications using 'platform sand multicast replication ingress maximum < members >' or the buffer limit using '[no] platform sand multicast replication ingress buffer maximum'.

Recommended Action: No action is required – this message is for information only.

MCAST_PICASSO_NOT_READY: Picasso memory is not ready in SandMcast.

Severity: Error

Explanation: Picasso memory is not ready in SandMcast. SandMcast is about to restart.

Recommended Action: No action is required – this message is for information only.

MCAST_PPMC_RESOURCE_FULL: Hardware resources are insufficient to program all multicast chain port-VLANs on %s

Severity: Error

Explanation: The switch is unable to program all the multicast chain tunnel port-VLAN entries due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of tunnel port-VLAN entries on the switch

MCAST_PPMC_RESOURCE_NORMAL: All multicast chain port-VLANs are programmed in hardware on %s

Severity: Error

Explanation: The switch was able to program all the multicast chain tunnel port-VLAN entries in hardware.

Recommended Action: No action is required – this message is for information only.

MIRRORING_ACL_HW_RESOURCE_FULL: Hardware resources are insufficient to program all mirroring ACLs

Severity: Error

Explanation: The switch is unable to program all mirroring ACLs due to insufficient hardware resources.

Recommended Action: Reconfigure your mirroring ACLs to reduce the size and/or complexity of the ACL.

MIRRORING_ACL_HW_RESOURCE_NORMAL: All mirroring ACLs are programmed in hardware

Severity: Error

Explanation: The switch was able to program all the mirroring ACLs in the hardware.

Recommended Action: No action is required – this message is for information only.

MIRRORING_LAG_HW_RESOURCE_FULL: Hardware resources are insufficient to program mirroring Port-channel

Severity: Error

Explanation: The switch is unable to program Port-channel for mirroring due to insufficient hardware mirroring session resources.

Recommended Action: Reconfigure your monitor sessions to reduce the number of GRE destination interfaces.

MIRRORING_LAG_HW_RESOURCE_NORMAL: Hardware mirroring session is available for Mirroring

Severity: Error

Explanation: The switch has sufficient mirroring sessions available.

Recommended Action: No action is required – this message is for information only.

MIRROR_RATE_LIMIT_INCOMPATIBLE: Rate limiting of mirrored traffic is not compatible with %s. For %s to work, please disable rate limiting of mirrored traffic.

Severity: Error

Explanation: QoS policing and storm control do not work correctly if rate limiting of mirrored traffic is enabled.

Recommended Action: No action is required – this message is for information only.

MULTI_LABEL_LOOKUP_COUNT_ENTROPY_POP_NOT_SUPPORTED: With 'mpls lookup label count 2' command, entropy label pop is not supported

Severity: Error

Explanation: When MPLS lookup label count is 2 and the packet has entropy label, the entropy label indicator and entropy label will not be popped

Recommended Action: No action is required – this message is for information only.

MULTI_LABEL_LOOKUP_COUNT_MPLS_FALLBACK_IP_NOT_SUPPORTED: Configurations 'mpls lookup label count 2' and 'mpls lookup fallback ip' cannot co-exist.

Severity: Error

Explanation: Configuration 'mpls lookup fallback ip' doesn't support 2 MPLS label lookup.

Recommended Action: Please unconfigure either of the two.

NO_LINECARDS_PRESENT: No connected linecards detected on fabric card %s

Severity: Warning

Explanation: Linecards need to be installed

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

OUTAC_RESOURCE_FULL: Hardware resources are insufficient to program all entries in OutAc table for interface %s.

Severity: Error

Explanation: The switch is unable to program all operational tunnel and VLAN tag rewrite state due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of tunnels, sub-interfaces, VLAN mapping and other VLAN tag manipulation operations

PETRA_NOT_QUIET: %s %s are %d, but should be %d

Severity: Debug

Explanation: Traffic activity has been detected while verifying Petra quiescence

Recommended Action: No action is required – this message is for information only.

POSSIBLE_FABRIC_ERROR: Detected possible fabric error, which was not resolved by resetting the switch fabric. See 'show platform sand health' for more details.

Severity: Warning

Explanation: Errors occurred which were not resolved by resetting the fabric. This may be a symptom of a possible problem with a fabric card.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POSSIBLE_STUCK_PORT: %s may be stuck. Tx queues should be empty, but descriptors detected UC: %d MC: %d chip: %d

Severity: Error

Explanation: There are packet descriptors in a disabled port's tx queues. This can be a symptom of a stuck egress port. If you enable the port, and no packets transmit out, the port is unusable until the forwarding agent restarts.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_CYCLE_AFTER_INIT_FAILURE: %s is being power cycled due to consecutive initialization failures

Severity: Error

Explanation: The initialization of switch asics failed and the card is being power cycled to recover from the failure.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_CYCLE_REQUIRED: Software detected an error condition which requires a power cycle to recover. Please reload the system at the soonest convenient time.

Severity: Error

Explanation: Software detected that a power cycle is required, but is unable to power cycle the hardware. Please reload the system to power cycle it, and recover from the error.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_OFF_AFTER_DDR_PLL_LOCKED_FAILURE: %s is being powered off due to consecutive initialization failures.

Severity: Error

Explanation: The initialization of switch ASICs (DDR) failed and the card is being powered off.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

POWER_OFF_AFTER_PERSISTENT_DMA_FAILURE: Powering off Linecard %d because of %d DMA health check failures within %d hours

Severity: Warning

Explanation: The linecard was powered off due to persistent DMA failures on the linecard.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

PVLAN_FORWARDINGID_NOT_CONFIGURED: Unable to activate private VLAN with secondary VLAN %d and primary VLAN %d on interface %s because forwarding-id sharing is not configured.

Severity: Error

Explanation: The specified private VLAN could not be activated because forwarding-id sharing is not configured.

Recommended Action: Configure the forwarding-id sharing feature with the 'platform sand l2 forwarding-id sharing' command.

PVLAN_IGMPSNOOPING_NOT_SUPPORTED: Unable to configure IGMP snooping on secondary VLAN %d and primary VLAN %d because IGMP snooping on private VLAN is not supported on this system.

Severity: Warning

Explanation: IGMP snooping on private VLAN is not supported on this system.

Recommended Action: Remove IGMP snooping configurations on private VLAN

PVLAN_RESOURCE_FULL: Unable to activate private VLAN with secondary VLAN %d and primary VLAN %d on interface %s due to hardware resource exhaustion.

Severity: Error

Explanation: The specified private VLAN could not be activated due to hardware resource exhaustion.

Recommended Action: Free up hardware resources by assigning fewer interfaces to secondary VLANs. Unconfigure and reconfigure the private VLAN aspects of the interface mentioned in the log message to get the system to attempt to program it again.

PVLAN_VXLAN_RESOURCE_FULL: Hardware resources are insufficient to program primary VLAN %d with secondary VLAN %d and VXLAN VNI %d. Hardware supports only secondary VLANs of at most %d different primary VLANs to be mapped to VXLAN VNIs.

Severity: Error

Explanation: The specified private VLAN could not be mapped to the VNI due to insufficient hardware resources.

Recommended Action: Reduce the number of primary VLANs whose secondary VLANs are mapped to VXLAN VNIs

QDR_ECC_ERROR: Ecc errors occurred in %s packet descriptor memory. New=%d, Total=%d

Severity: Error

Explanation: Ecc errors occurred in qdr packet descriptor memory of a switch chip. If the problem continues to happen, please contact support.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

RACL_MAX_LIMIT: Additional RACL entries could not be programmed on %s for %s

Severity: Error

Explanation: RACLs on excess VLANs and VRRPs will fail

Recommended Action: No action is required – this message is for information only.

REBOOT_AFTER_INIT_FAILURE: Initialization of %s switch ASICs failed. Automatically rebooting switch to attempt recovery

Severity: Error

Explanation: The initialization of switch ASICs failed, and the switch is being rebooted to recover from the failure. If initialization fails a second time, no automatic reboot will occur.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

RECIRC_PORT_CONFLICT: Internal Recirc port in use by %s has been manually reconfigured.

Severity: Warning

Explanation: A new Internal Recirc port will automatically be selected to be used by the feature.

Recommended Action: Check the output of 'show platform sand recirculation mapping' to ensure a new Internal Recirc has been configured for the feature.

RECIRC_PORT_NOT_AVAILABLE: Unable to configure Internal Recirc port. Reason: %s

Severity: Error

Explanation: An error occurred when configuring an Internal Recirc port. The port may not be configured as expected.

Recommended Action: Use the reason included in the log message to determine why the Internal Port configuration failed. If you are unsure how to proceed, contact your support representative.

REQUEST_RESET: Request reset of %s.

Severity: Warning

Explanation: Specified reset was requested by CLI command.

Recommended Action: No action is required – this message is for information only.

RESET_EGRESS_SCHEDULER: Reset egress scheduler of switch chip %s.

Severity: Warning

Explanation: Software has reset the egress scheduler of the switch chip.

Recommended Action: No action is required – this message is for information only.

RESET_FULL_CHIP: Reset all internal blocks of switch chip %s.

Severity: Warning

Explanation: Software re-initialized all internal blocks of the switch chip. This reset causes some traffic loss, but does not flap the links.

Recommended Action: No action is required – this message is for information only.

ROUTER_MAC_HW_RESOURCE_FULL: Failed to program the configured router MAC address %s on interface %s because the ingress or egress hardware resources are full.

Severity: Error

Explanation: The switch is unable to program new router MAC addresses due to insufficient ingress or egress hardware resources.

Recommended Action: Configure your network to have new router MAC addresses reuse existing router MAC address prefixes configured in the switch.

ROUTER_MAC_HW_RESOURCE_NORMAL: All configured router MAC addresses are programmed into hardware

Severity: Info

Explanation: The switch was able to program all the configured router MAC addresses in the hardware.

Recommended Action: No action is required – this message is for information only.

ROUTE_OPTIMIZATION_UNSUPPORTED: Route optimization not supported for %s.

Severity: Error

Explanation: Route optimization not supported with the current running configuration.

Recommended Action: Remove unsupported route optimization configuration.

ROUTING_ARP_REMOTE_RESOURCE_FULL: Hardware resources are insufficient to program all remote ARP entries

Severity: Error

Explanation: The switch is unable to program all remote ARP entries due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of remote ARP entries in the switch.

ROUTING_ARP_REMOTE_RESOURCE_NORMAL: All remote ARP entries are programmed in hardware

Severity: Error

Explanation: The switch was able to program all the remote ARP entries in hardware.

Recommended Action: No action is required – this message is for information only.

ROUTING_ARP_RESOURCE_FULL: Hardware resources are insufficient to program all ARP entries

Severity: Error

Explanation: The switch is unable to program all ARP entries due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of ARP entries in the switch.

ROUTING_ARP_RESOURCE_NORMAL: All ARP entries are programmed in hardware

Severity: Error

Explanation: The switch was able to program all the ARP entries in hardware.

Recommended Action: No action is required – this message is for information only.

ROUTING_FEATURE_INCOMPATIBLE: Egress IPv6 ACLs will not work while sharing next-hops between IPv4/IPv6.

Severity: Error

Explanation: Egress IPv6 ACLs and next-hop sharing are not compatible features.

Recommended Action: Turn off adj sharing by issuing 'no ip hardware fib next-hop sharing'.

ROUTING_GRE_AND_MOG_RESOURCE_CONTENTION: GRE and MPLS-over-GRE configuration cannot co-exist on the switch. Please unconfigure either of the two

Severity: Error

Explanation: The switch maybe able to program GRE or MPLS-over-GRE in hardware

Recommended Action: Configure your network topology to include either GRE or MPLS-over-GRE in the config

ROUTING_GRE_AND_MOG_RESOURCE_CONTENTION_RESOLVED: Resource contention between GRE and and MPLS-over-GRE maybe resolved

Severity: Warning

Explanation: The switch data plane does not support GRE and MPLS-over-GRE encapsulation at the same time

Recommended Action: No action is required – this message is for information only.

ROUTING_GRE_TUNNEL_RESOURCE_FULL: Hardware resources are insufficient to program all GRE tunnel entries

Severity: Error

Explanation: The switch is unable to program all GRE tunnel entries due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of tunnel or ARP entries in the switch.

ROUTING_GRE_TUNNEL_RESOURCE_NORMAL: All GRE tunnel entries are programmed in hardware

Severity: Error

Explanation: The switch was able to program all the GRE tunnel entries in hardware.

Recommended Action: No action is required – this message is for information only.

ROUTING_IPV6_HOST_ROUTE_RESOURCE_FULL: TCAM entry could not be allocated for IPv6 host route

Severity: Error

Explanation: The switch is unable to program IPv6 host routes due to insufficient hardware resources for new IPv6 networks

Recommended Action: Check the number of IPv6 networks with host routes and restrict unique /64 networks to 511

ROUTING_IPV6_HOST_TCAM_ALLOCATED: TCAM bank successfully allocated for IPv6 host routes

Severity: Error

Explanation: TCAM bank is now available for programming IPv6 host routes in hardware

Recommended Action: No action is required – this message is for information only.

ROUTING_IPV6_HOST_TCAM_ALLOC_FAILED: TCAM bank could not be allocated for IPv6 host routes

Severity: Error

Explanation: The switch is unable to program ipv6 host routes due to insufficient hardware resources

Recommended Action: Reconfigure the switch to free up tcam resources for ipv6 host route programming OR configure no ipv6 host-route exact-match to disable IPv6 host routes getting programmed in exact match table

ROUTING_IP_TUNNEL_RESOURCE_FULL: Hardware resources are insufficient to program all IP tunnel entries

Severity: Error

Explanation: The switch is unable to program all IP tunnel entries due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of IP tunnel entries in the switch.

ROUTING_IP_TUNNEL_RESOURCE_NORMAL: All IP tunnel entries are programmed in hardware

Severity: Error

Explanation: The switch was able to program all the IP tunnel entries in hardware.

Recommended Action: No action is required – this message is for information only.

ROUTING_LEM_RESOURCE_FULL: Hardware resources are insufficient to program all MAC entries and routes

Severity: Error

Explanation: The switch is unable to program all MAC entries and routes due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of MAC entries and routes in the switch.

ROUTING_LEM_RESOURCE_NORMAL: All MAC entries and routes are programmed in hardware

Severity: Error

Explanation: The switch was able to program all MAC entries and routes in hardware.

Recommended Action: No action is required – this message is for information only.

ROUTING_LPM_MODE_CHANGE: SandL3Unicast agent is restarting disruptively to reprogram all routes

Severity: Warning

Explanation: Switch with chips of different LPM capacities need disruptive restart of L3 forwarding agent to support routing in mixed mode

Recommended Action: No action is required – this message is for information only.

ROUTING_LPM_REPROGRAM: SandL3Unicast agent is disruptively reprogramming all routes to adapt to a change of switch chip versions in the system

Severity: Warning

Explanation: When a linecard containing different switch chip versions with different LPM capacities from what is already present in the modular switch is inserted, the L3 forwarding agent disruptively reprograms all the switch chips in the system to adapt to the new, mixed mode of operation

Recommended Action: No action is required – this message is for information only.

ROUTING_MIRROR_GRE_TUNNEL_NEXTHOPS_UNPROGRAMMED: Hardware resources insufficient to program all mirror to GRE nexthops.

Severity: Info

Explanation: The number of nexthops that can be programmed for a given mirror to GRE tunnel is limited to the maximum number of lag members supported by the operational lag mode.

Recommended Action: No action is required – this message is for information only.

ROUTING_MPLS_OVER_GRE_RESOURCE_FULL: Hardware resources are insufficient to program all mpls over gre tunnel entries

Severity: Error

Explanation: The switch is unable to program all mpls over gre tunnel entries due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of mpls over gre tunnel entries in the switch.

ROUTING_MPLS_OVER_GRE_RESOURCE_NORMAL: All mpls over gre tunnel entries are programmed in hardware

Severity: Error

Explanation: The switch was able to program all the mpls over gre tunnel entries in hardware.

Recommended Action: No action is required – this message is for information only.

ROUTING_MPLS_TUNNEL_RESOURCE_FULL: Hardware resources are insufficient to program all mpls tunnel entries

Severity: Error

Explanation: The switch is unable to program all mpls tunnel entries due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of mpls tunnel entries in the switch.

ROUTING_MPLS_TUNNEL_RESOURCE_NORMAL: All mpls tunnel entries are programmed in hardware

Severity: Error

Explanation: The switch was able to program all the mpls tunnel entries in hardware.

Recommended Action: No action is required – this message is for information only.

ROUTING_MTU_CONFIG_ERROR: Failed to program MTU on Interface %s. The number of unique MTU values configured on routed interfaces exceeds the maximum supported (%d)

Severity: Error

Explanation: Maximum allowed unique MTU values in the switch reached. No new MTU configurations allowed on the switch. MTU is not enforced on this Interface.

Recommended Action: No action is required – this message is for information only.

ROUTING_NEXT_HOP_DECAP_NOT_SUPPORTED: Routes pointing to decap next-hop cannot be installed with current configuration.

Severity: Error

Explanation: Please enable next-hop decapsulation CLI.

Recommended Action: Use command: "next-hop decapsulation vrf" and restart SandL3Unicast agent. This command is not compatible with ingress/egress traffic-policy or segment security configuration and the corresponding feature agent will be disabled. Please remove any ingress/egress traffic-policy and segment security configuration before proceeding.

ROUTING_NEXT_HOP_DECAP_SUPPORTED: Routes pointing to decap next-hop can now be installed.

Severity: Info

Explanation: Command 'next-hop decapsulation vrf' is enabled.

Recommended Action: No action is required – this message is for information only.

ROUTING_NEXT_HOP_FALLBACK_DECAP_NOT_SUPPORTED: Routes pointing to decap next-hop cannot be installed with current configuration

Severity: Error

Explanation: Please enable next-hop fallback decapsulation cli

Recommended Action: Use command: "next-hop fallback decapsulation vrf" and restart SandL3Unicast agent.

ROUTING_NEXT_HOP_FALLBACK_DECAP_SUPPORTED: Routes pointing to decap next-hop can now be installed.

Severity: Info

Explanation: Command 'next-hop fallback decapsulation vrf' is enabled.

Recommended Action: No action is required – this message is for information only.

ROUTING_OPTIMIZE_CONFIG_CHANGED: SandTunnel agent is restarting disruptively.

Severity: Warning

Explanation: SandTunnel restarts disruptively in response to a change in fib optimize prefix-length configuration.

Recommended Action: No action is required – this message is for information only.

ROUTING_OVERFLOW: %s is unable to fit all the routes in hardware due to lack of %s. All routed traffic will be dropped.

Severity: Error

Explanation: All routed traffic will be dropped due to lack of hardware resources.

Recommended Action: Reconfigure your network.

ROUTING_OVERFLOW_RECOVERY_COMPLETED: %s recovered from routing overflow.

Severity: Error

Explanation: All routes have been re-added.

Recommended Action: No action is required – this message is for information only.

ROUTING_OVERFLOW_RECOVERY_STARTED: %s is starting to recover from routing overflow.

Severity: Error

Explanation: All routes are being re-added.

Recommended Action: Reconfigure your network if routing overflow persists.

ROUTING_TUNNEL_QOS_RESOURCE_FULL: Hardware resources may be insufficient to program new entries with new QOS values

Severity: Warning

Explanation: The switch is unable to program new tunnel entries due to insufficient QOS index hardware resources.

Recommended Action: Configure your network to have new tunnel entries reusing existing tunnel QOS values configured in the switch.

ROUTING_TUNNEL_QOS_RESOURCE_NORMAL: Hardware resources are available to program new tunnel with new QOS values.

Severity: Warning

Explanation: The switch is able to program new tunnel entries in hardware as QOS index resource is now available.

Recommended Action: No action is required – this message is for information only.

ROUTING_TUNNEL_SIP_RESOURCE_FULL: Hardware resources are insufficient to program new tunnel entries with new source IP addresses

Severity: Warning

Explanation: The switch is unable to program new tunnel entries due to insufficient source IP index hardware resources.

Recommended Action: Configure your network to have new tunnel entries reusing existing tunnel source IP address configured in the switch.

ROUTING_TUNNEL_SIP_RESOURCE_NORMAL: Hardware resources are available to program new tunnel with new source IP addresses.

Severity: Warning

Explanation: The switch is able to program new tunnel entries in hardware as source IP index resource is now available.

Recommended Action: No action is required – this message is for information only.

ROUTING_TUNNEL_TTL_RESOURCE_FULL: Hardware resources are insufficient to program new tunnel entries with new TTL values

Severity: Warning

Explanation: The switch is unable to program new tunnel entries due to insufficient TTL index hardware resources.

Recommended Action: Configure your network to have new tunnel entries reusing existing tunnel TTL values configured in the switch.

ROUTING_TUNNEL_TTL_RESOURCE_NORMAL: Hardware resources are available to program new tunnel with new TTL values.

Severity: Warning

Explanation: The switch is able to program new tunnel entries in hardware as TTL index resource is now available.

Recommended Action: No action is required – this message is for information only.

RTWFQ_HARDWARE_ERROR: Real-time traffic-based WFQ counter feature has experienced an error. Failed to communicate with the hardware module related to the feature.

Severity: Error

Explanation: An error occurred while configuring hardware module related to the real-time traffic-based WFQ feature.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SCHEDULERGROUP_HW_LIMIT_REACHED: Shaping configuration for scheduler group %s on interface %s failed. The system is already configured with the maximum number of scheduler groups with shaping supported (%d).

Severity: Error

Explanation: If shaping is removed on other scheduler groups to address this, it is required to remove and reapply shaping configuration on this scheduler group to take effect.

Recommended Action: No action is required – this message is for information only.

SERDES_RESTORED_TO_FABRIC: Serdes %s restored to the switch fabric.

Severity: Warning

Explanation: A fabric serdes has been brought back online.

Recommended Action: No action is required – this message is for information only.

SERDES_WITHDRAWN_FROM_FABRIC: Serdes %s withdrawn from the switch fabric.

Severity: Warning

Explanation: A fabric serdes has been taken offline due to persistent serdes errors.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SPLIT_HORIZON_GROUP_REDUCED_WITH_VXLAN: Hardware resources to implement split horizon filtering are insufficient to program split horizon group %s in VLAN %u.

Severity: Error

Explanation: When VXLAN is configured, the switch has reduced hardware resources to implement split horizon group filtering. The switch is unable to program all split horizon groups.

Recommended Action: Reconfigure your network to reduce the number of split horizon groups in the VLAN on the switch, or remove any VXLAN configuration on the switch.

SSO_NOT_SUPPORTED: Redundancy protocol SSO for card %s is not supported in this software version.

Severity: Error

Explanation: In this software version, Stateful Switchover support for this card is not available.

Recommended Action: Configure redundancy protocol to RPR for this chassis.

STUCK_SCHEDULER_SHAPER: Detected stuck scheduler shaper on %s for flow %d from %s to %s.

Severity: Warning

Explanation: Software detected a possibly stuck scheduler shaper. If confirmed, software resets the egress scheduler of this switch chip, to correct the condition.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

STUCK_VOQ_INCONSISTENT_QUEUE: Software has detected that voq %d of switch %s pointing to fap %d port %d with traffic class %d has %dB of packets with no dequeues. Found a queue table with inconsistent entries.

Severity: Error

Explanation: No description needed.

Recommended Action: No action is required – this message is for information only.

STUCK_VOQ_WITH_CREDITS: Software has detected that voq %d of switch %s pointing to fap %d port %d with traffic class %d has %dB of packets with no dequeues in the last %d ms. It's credit balance is %d and %d credits have arrived in the same amount of time.

Severity: Warning

Explanation: No description needed.

Recommended Action: No action is required – this message is for information only.

SUBINTF_HW_RESOURCE_EXHAUSTED: Scheduling configuration on interface %s failed due to lack of queuing hardware resources.

Severity: Error

Explanation: Hardware limit of flows on Fap%s.Core%d has reached.

Recommended Action: A parent interface on another fap or other core of this fap can be used to create more sub interfaces.

SUBINTF_SHAPING_HW_LIMIT_REACHED: Scheduling configuration on interface %s failed. The system is already configured with the maximum number of subinterfaces with scheduling supported (%d).

Severity: Error

Explanation: If shaping is removed on other subinterfaces to address this, it is required to remove and reapply shaping configuration on this sub interface to take effect.

Recommended Action: No action is required – this message is for information only.

SWITCH_INIT_FAILED: %s (%s) initialization failed.

Severity: Error

Explanation: The initialization sequence of this switch ASIC failed. This could be an intermittent problem, and it will work next time. If it persists, it could be bad hardware.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TCAM_VLAN_EDIT_DISABLED: TCAM vlan editing disabled with one or more entries present.

Severity: Error

Explanation: Traffic forwarding through patch panel connections may be broken until vlan editing is enabled in the TCAM profile.

Recommended Action: Configure TCAM vlan editing to resume service.

TRAP_HW_RESOURCE_FULL: The trap configuration for %s was not programmed and will not function correctly. The number of features using traps is limited to %d, and the following features are using traps: %s.

Severity: Warning

Explanation: Hardware trap resources are exhausted.

Recommended Action: Reduce the number of trap consuming features and enable desired features up to the hardware limit.

TRAP_HW_RESOURCE_NORMAL: Initialization of trap for features %s succeeded.

Severity: Warning

Explanation: The feature's traps have been successfully initialized and are operating normally.

Recommended Action: No action is required – this message is for information only.

UDF_ACL_HW_RESOURCE_FULL: Hardware resources are insufficient to program ACLs with UDF

Severity: Error

Explanation: The switch is unable to program ACLs featuring UDF due to insufficient hardware resources available in the TCAM.

Recommended Action: Reconfigure and reapply your ACLs in the session to reduce the size and/or complexity of the ACLs featuring UDF.

UDF_ACL_HW_RESOURCE_NORMAL: All ACLs with UDF are programmed in hardware

Severity: Error

Explanation: The switch was able to program all the ACLs featuring UDF in the hardware.

Recommended Action: No action is required – this message is for information only.

UNPROTECTED_TABLE_CORRUPTION_CORRECTED: Corruption found in %s table %s entry %s. Correction succeeded.

Severity: Error

Explanation: Memory errors have been detected in hardware and were corrected by software.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

UNPROTECTED_TABLE_CORRUPTION_NOT_CORRECTED: Corruption found in %s table %s entry %s. The error is uncorrected, as correction attempts are disabled by the switch configuration.

Severity: Error

Explanation: Memory errors have been detected in hardware and will not be corrected by software because unprotected table repair is disabled

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

UNPROTECTED_TABLE_CORRUPTION_STUCK: Corruption found in %s table %s entry %s. Correction attempts failed.

Severity: Error

Explanation: Memory errors have been detected in hardware and attempts to correct it by software did not succeed.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

UNSUPPORTED_URPF_MODE: Ignoring unsupported %s uRPF mode %s on interface %s.

Severity: Error

Explanation: Configured uRPF mode is not supported on this platform

Recommended Action: Remove unsupported uRPF mode from configuration.

VLAN_TAG_TO_VSI_MAPPER_CONFLICT: VLAN tag/VSI mapper entry conflict for %s and applications %s

Severity: Warning

Explanation: Multiple applications are unexpectedly trying to install the same entry, the asterisk indicates which application will win.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

VNI_POLICING_HW_RESOURCE_FULL: Insufficient hardware resources to program %s policing on VNI %s.

Severity: Error

Explanation: The switch is unable to program VNI policing configuration due to insufficient hardware resources.

Recommended Action: Reduce VNI policing rules to free some resources and reapply.

VNI_POLICING_HW_RESOURCE_NORMAL: Programmed %s VNI policing on VNI %s in hardware.

Severity: Error

Explanation: The switch was able to program VNI policing configuration in the hardware.

Recommended Action: No action is required – this message is for information only.

VNI_POLICING_POLICER_RESOURCE_FULL: Insufficient hardware resources to program police action in %s direction on VNI %s.

Severity: Error

Explanation: Remove some features using policer banks and reapply VNI policing rule to enable police action.

Recommended Action: No action is required – this message is for information only.

VPLS_SPLIT_HORIZON_REDUCED_WITH_VXLAN: Hardware resources to implement VPLS split horizon filtering are insufficient to program VPLS PW group %s in instance %s.

Severity: Error

Explanation: When VXLAN is configured, the switch has reduced hardware resources to implement VPLS split horizon filtering. The switch is unable to program all VPLS entries.

Recommended Action: Reconfigure your network to reduce the number of split horizon PW groups in the VPLS instance on the switch, or remove any VXLAN configuration on the switch.

VPLS_SPLIT_HORIZON_RESOURCE_FULL: Hardware resources to implement split horizon filtering are insufficient to program split horizon group %s in %s

Severity: Error

Explanation: The switch is unable to program all interfaces due to insufficient hardware resources to implement split horizon filtering.

Recommended Action: Reconfigure your network to reduce the number of split horizon groups in the VLAN or VPLS instance on the switch.

VPLS_SPLIT_HORIZON_RESOURCE_NORMAL: Hardware resources to implement split horizon filtering on %s are recovered.

Severity: Error

Explanation: The switch was able to program all split horizon groups in hardware.

Recommended Action: No action is required – this message is for information only.

VXLAN_ROUTE_IGNORED: VXLAN routes cannot be programmed in the data path with the current TCAM profile

Severity: Info

Explanation: Please configure the VXLAN routing TCAM profile using the command: "hardware tcam profile vxlan-routing"

Recommended Action: No action is required – this message is for information only.

VXLAN_UNDERLAY_MULTICAST_DECAP_ROUTE_HW_RESOURCE_FULL: Hardware resources are insufficient to program all underlay VXLAN multicast decap route entries

Severity: Error

Explanation: The switch is unable to program all underlay VXLAN multicast decap route entries due to insufficient hardware resources available in the TCAM.

Recommended Action: Reconfigure your network to reduce the number of underlay VXLAN multicast decap route entries in the switch.

VXLAN_UNDERLAY_MULTICAST_DECAP_ROUTE_HW_RESOURCE_NORMAL: All underlay VXLAN multicast decap route entries are programmed in hardware

Severity: Error

Explanation: The switch was able to program all the underlay VXLAN multicast decap route entries in hardware.

Recommended Action: No action is required – this message is for information only.

2.140 SANDACL Messages

LOOP_PROTECT_HW_RESOURCE_FULL: Hardware resources are insufficient to program AristaLoopProtect-Feature entry

Severity: Error

Explanation: The switch is unable to program AristaLoopProtectFeature ACL due to insufficient hardware resources available in the TCAM.

Recommended Action: Reconfigure your ACLs to reduce the size and/or complexity of the ACLs.

LOOP_PROTECT_UNSUPPORTED: Loop protect feature not supported on interfaces of %s when AlgoMatch mechanism is enabled.

Severity: Error

Explanation: Loop protect feature not supported on interfaces with AlgoMatch mechanism enabled.

Recommended Action: Loop protect feature will function normally if AlgoMatch mechanism is disabled.

ROUTED_PORT_QOS_ACL_SHARING_MODE_CHANGE: QOS ACLs applied on routed ports now share resources with %s ACLs

Severity: Info

Explanation: QOS ACLs applied on routed ports will be uninstalled and installed again

Recommended Action: No action is required – this message is for information only.

TCP_MSS_CEILING_HW_RESOURCE_FULL: Hardware resources are insufficient to program TCP MSS Ceiling Feature

Severity: Error

Explanation: The switch is unable to program TCP MSS Ceiling due to insufficient hardware resources. TCP MSS Ceiling feature might not work as expected.

Recommended Action: Free up some TCAM banks to get TCAM resources to accommodate the TCP MSS Ceiling feature entries

VLAN_IPV4_ACL_SHARING_MODE_CHANGE: Change in resource sharing behavior for IPv4 ACLs applied on VLAN interfaces

Severity: Info

Explanation: SandAcl agent will restart to share/unshare ACL hardware resources attached across multiple VLAN interfaces

Recommended Action: No action is required – this message is for information only.

VXLAN_ARP_SNOOP_ACL_RESOURCE_FULL: The switch is unable to program the ARP snooping ACL in VXLAN context. Related features such as ARP suppression, proxying, etc. will not

Severity: Error

Explanation: function as expected Free up some TCAM banks or ACLs to get TCAM resources to accommodate the ARP snooping ACL

Recommended Action: No action is required – this message is for information only.

VXLAN_DHCP_SUPPRESSION_RULE_NOT_INSTALLED: Rules to suppress VXLAN tunneled DHCP requests cannot be programmed as key field forwarding-type or vxlan-inner-ip-udp-dport is not there in feature tunnel vxlan

Severity: Error

Explanation: The switch is unable to program TCAM rules that suppress the VXLAN tunneled DHCP requests

Recommended Action: Add forwarding-type and vxlan-inner-ip-udp-dport as a key field to feature tunnel vxlan in the TCAM profile configuration

VXLAN_EVPN_MULTI_HOMING_HW_RESOURCE_FULL: Hardware resources are insufficient to program all multi-homing ethernet segments in VXLAN EVPN multi-homing context.

Severity: Error

Explanation: The switch is unable to successfully configure all active multi-homing ethernet segments. Related features such as VXLAN EVPN multi-homing will not function as expected.

Recommended Action: No action is required – this message is for information only.

VXLAN_EVPN_MULTI_HOMING_HW_RESOURCE_NORMAL: Hardware resources are sufficient to program all multi-homing ethernet segments in VXLAN EVPN multi-homing context.

Severity: Error

Explanation: The switch is able to successfully configure all active multi-homing ethernet segments. Related features such as VXLAN EVPN multi-homing will function as expected.

Recommended Action: No action is required – this message is for information only.

VXLAN_EVPN_MULTI_HOMING_TCAM_HW_RESOURCE_FULL: Hardware resources are insufficient to program TCAM rules for all ethernet segments in VXLAN EVPN multi-homing context

Severity: Error

Explanation: The switch is unable to program TCAM rules for all ethernet segments. Related features such as VXLAN EVPN multi-homing will not function as expected.

Recommended Action: No action is required – this message is for information only.

VXLAN_EVPN_MULTI_HOMING_TCAM_HW_RESOURCE_NORMAL: Hardware resources are sufficient to program TCAM rules for all ethernet segments in VXLAN EVPN multi-homing context

Severity: Error

Explanation: The switch is able to program TCAM rules for all ethernet segments. Related features such as VXLAN EVPN multi-homing will function as expected.

Recommended Action: No action is required – this message is for information only.

VXLAN_MH_SBD_VLAN_HW_RESOURCE_FULL: Hardware resources are insufficient to program TCAM rules for all Supplementary Bridge Domain VLANs in VXLAN EVPN multi-homing context.

Severity: Error

Explanation: The switch is unable to successfully configure all active multi-homing ethernet segments. Related features such as VXLAN EVPN multi-homing will not function as expected.

Recommended Action: No action is required – this message is for information only.

VXLAN_MH_SBD_VLAN_HW_RESOURCE_NORMAL: Hardware resources are sufficient to program TCAM rules for all Supplementary Bridge Domain VLANs in VXLAN EVPN multi-homing context.

Severity: Error

Explanation: The switch is able to successfully configure all active multi-homing ethernet segments. Related features such as VXLAN EVPN multi-homing will function as expected.

Recommended Action: No action is required – this message is for information only.

VXLAN_VARP_MAC_SNOOP_ACL_RESOURCE_FULL: The switch is unable to program the VARP MAC snooping ACL to properly encapsulate packets with source mac address as VARP MAC address due to insufficient TCAM resources in hardware. Vxlan routing with VARP will not

Severity: Error

Explanation: function as expectedFree up some TCAM banks or ACLs to get TCAM resources to accommodate the VARP MAC ACL

Recommended Action: No action is required – this message is for information only.

2.141 SANDIPSEC Messages

TUNNEL_RESOURCE: Unable to program fragmentation MTU in TCAM for %s.

Severity: Warning

Explanation: Unable to fit entry in hardware TCAM resources.

Recommended Action: No action is required – this message is for information only.

2.142 SANDMACT Messages

LEARN_LIMIT_LIMITED: The configured MAC learning limit %d exceeded the max allowed limit %d (90%% of LEM table capacity). The learning limit has been set to %d.

Severity: Info

Explanation: The MAC learning limit is limited to 90% of the LEM table capacity to ensure performance and stability.

Recommended Action: No action required.

VERIFY_FAIL_FDBSTATUS: SandMact Verify failed: Inconsistent FdbStatus table entry: mac address %s in Vlan %d

Severity: Error

Explanation: FdbStatus Table and Shadow Table maintain the mac table entries in the system. These two tables going out-of-sync shows an inconsistent state of the system

Recommended Action: If the inconsistency lasts over a longer period, the Audit should kick in and rectify the inconsistencies

VERIFY_FAIL_SHADOW: SandMact Verify failed: Inconsistent SandMact-Shadow table entry: mac address %s in Vlan %d

Severity: Error

Explanation: FdbStatus Table and Shadow Table maintain the mac table entries in the system. These two tables going out-of-sync shows an inconsistent state of the system

Recommended Action: If the inconsistency lasts over a longer period, the Audit should kick in and rectify the inconsistencies

2.143 SANDOAM Messages

SAT_FLOW_LIMIT_REACHED: Test flow for interface %s on fap %d can not be started because it exceeds maximum number of supported flows %d

Severity: Warning

Explanation: The new test flows will not be started until the number of active flows is no longer at limit

Recommended Action: No action is required – this message is for information only.

2.144 SECUREBOOT Messages

CERT_LOAD_FAIL: Secure boot certificate loader failed to load the following certificate: %s

Severity: Error

Explanation: Secure boot certificate load failed and no further attempt will be made to load it. This error may impact verification steps of newly installed images.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

STATE_LOAD_FAIL: Secure boot data fetch failed.

Severity: Error

Explanation: Secure boot data fetch failed and no further attempt will be made to load it. This error may impact information reporting and correct behavior of the feature.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

2.145 SECURITY Messages

ARP_PACKET_DROPPED: Dropped ARP packet on interface %s Vlan %s because %s. Received: %s!%s.

Severity: Warning

Explanation: ARP inspection dropped an ARP packet because it did not match an entry in the source binding database.

Recommended Action: Determine why the bad ARP packet was sent and correct the issue.

ARP_RATE_EXCEEDED: Exceeded ARP warning rate on %s

Severity: Warning

Explanation: The switch received enough ARP packets to trigger this warning. This can cause the port to become errdisabled depending on configuration. ARP packets may also be delayed in processing by the CPU.

Recommended Action: Determine why so many ARP packets are being sent and slow the rate to acceptable levels.

BOARD_VALIDATION_FAILED: Failed to validate the %s as coming from Arista

Severity: Error

Explanation: Failed to validate the expected cryptographic elements on the board that Arista adds during device creation

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

COMMON_ENCRYPTION_KEY_ERROR: Unable to retrieve the customized common encryption key due to: %s

Severity: Error

Explanation: Unable to retrieve the customized common encryption key on the device when installing the startup-config. It might impact features using type 7 or 8a encrypted secrets due to the encryption key missing

Recommended Action: Verify the customized common key has been stored on the device before load the startup-config

HW_ENTROPY_ERROR: Hardware entropy generation is encountering errors: %s

Severity: Error

Explanation: Hardware entropy generation is experiencing problems. The SECURITY_HW_ENTROPY_RECOVER message will be logged when hardware entropy generation is functioning properly.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

HW_ENTROPY_FAILED: Hardware entropy generation failed due to prolonged communication failure with the hardware entropy source.

Severity: Error

Explanation: Hardware entropy generation failed and no further attempts will be made to communicate with the hardware entropy source.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

HW_ENTROPY_FATAL_ERROR: Hardware entropy generation failed: %s: %s

Severity: Error

Explanation: Hardware entropy generation failed due to an unrecoverable error.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

HW_ENTROPY_RECOVER: Hardware entropy generation is now working properly.

Severity: Error

Explanation: Hardware entropy was experiencing problems which have been corrected.

Recommended Action: No action is required – this message is for information only.

HW_ENTROPY_START: Hardware entropy generation started.

Severity: Info

Explanation: Notification that the hardware entropy generation is running.

Recommended Action: No action is required – this message is for information only.

HW_ENTROPY_STOP: Hardware entropy generation stopped.

Severity: Info

Explanation: Notification that the hardware entropy generation is not running.

Recommended Action: No action is required – this message is for information only.

HW_ENTROPY_UNSUPPORTED: %s does not support hardware entropy generation.

Severity: Warning

Explanation: Hardware entropy generation not supported on platform for the given reason.

Recommended Action: No action is required – this message is for information only.

IPSG_HW_RESOURCE_FULL: Ingress TCAM resources are insufficient to program IP source guard entries %s

Severity: Error

Explanation: The switch is unable to program IP source guard entries due to insufficient ingress TCAM resources. As a result, IP traffic is not properly filtered %s

Recommended Action: Free up some ingress TCAM resources for IP source guard. One or more of the following steps might be helpful: 1. Remove unused IP source binding entries. 2. Reconfigure other features that use ingress TCAMs.

IPSG_HW_RESOURCE_RECOVERED: TCAM resource on unit %d is available

Severity: Error

Explanation: The switch was able to install IP source guard entries to the ingress TCAM.

Recommended Action: IP source guard configuration on unit %d works in hardware.

SECRET_DECRYPTION_ERROR: Encrypted text '%s' failed to be decrypt with algorithm %s

Severity: Error

Explanation: Unable to decrypt secret ciphertext encrypted with specified encryption algorithm

Recommended Action: Please make sure the secret is encrypted with specified encryption algorithm using the same encryption key in the system and not tampered with.

SEGMENTATION_INVALID_PREFIX: Invalid prefix (%s) configuration

Severity: Error

Explanation: Switch has skipped processing invalid/unsupported prefix

Recommended Action:

SEGMENTATION_POLICY_HW_RESOURCE_FULL: Hardware resources are insufficient to enforce policy

Severity: Error

Explanation: The switch is unable to program the policy rules due to TCAM resource exhaustion.

Recommended Action: Reconfigure the system to free up TCAM resources before configuring Segment Security

SEGMENTATION_POLICY_HW_RESOURCE_NORMAL: Hardware resources are available to enforce policy

Severity: Error

Explanation: The switch was able to program the policy rules in TCAM.

Recommended Action:

SEGMENTATION_URPF_CONFIGURATION_CONFLICT: Segment Security feature disabled because of conflicting URPF configuration

Severity: Error

Explanation: URPF and Segment Security can not be configured at same time. URPF configuration has been applied.

Recommended Action: Reconfigure the system to remove one of the conflicting features

SESSION_IDLE_TIMEOUT: Session for user %s on service %s terminated due to idle timeout.

Severity: Info

Explanation: The user exceeded the idle timeout configured for that service. The user's session was terminated as a result.

Recommended Action: No action is required – this message is for information only.

SSH_CERT_FILE_WARNING: Issue found with one or more SSH files: %s

Severity: Warning

Explanation: The SSH files may contain invalid keys, or conflicting host certificates with the same key type may have been configured. The files may also not exist. Until the files are fixed, passwordless authentication or host key checking may not work as expected.

Recommended Action: Check the files to make sure the contents are correct.

SSH_CLIENT_CONNECTING: %s is connecting a SSH session from the switch to %s@%s:%s

Severity: Info

Explanation: A person logged into the switch began a SSH session to an external server.

Recommended Action: No action is required – this message is for information only.

SSH_CLIENT_DISCONNECTED: %s disconnected the SSH session from the switch to %s@%s:%d

Severity: Info

Explanation: The SSH session from the switch to the remote server is now over

Recommended Action: No action is required – this message is for information only.

SSH_FIPS_RESTRICTIONS_REENABLED: FIPS restrictions no longer relaxed

Severity: Warning

Explanation: Resolving all configuration conflicts causing FIPS restrictions to be relaxed fully re-enables FIPS restrictions.

Recommended Action: No action is required – this message is for information only.

SSH_FIPS_RESTRICTIONS_RELAXED: FIPS restriction relaxed (%s)

Severity: Warning

Explanation: The current configuration requires a non-FIPS SSH server, and also enables FIPS restrictions. Until this conflict is resolved, FIPS restrictions are relaxed (partially applied).

Recommended Action: Check the syslog message for the specific configuration causing this conflict and resolve it, or disable FIPS restrictions

SSH_TUNNEL_ALGORITHM_MISMATCH: SSH tunnel %s was unable to connect to the configured remote server due to not finding a matching %s.

Severity: Error

Explanation: The remote server did not support an algorithm that the switch could use.

Recommended Action: Check if the server and switch are configured correctly.

SSH_TUNNEL_CLOSED_REMOTELY: SSH tunnel %s had its connection closed by the remote host.

Severity: Error

Explanation: The SSH Tunnels connection was closed by the remote host.

Recommended Action: Check the logs for the remote hosts SSH server.

SSH_TUNNEL_CONNECTION_REFUSED: SSH tunnel %s had its initial connection refused by the remote host.

Severity: Error

Explanation: The initial attempt to open an ssh connection was refused by the remote host.

Recommended Action: Check that the remote host has its ssh server running and accepting connections on port 22.

SSH_TUNNEL_CORRUPT_PACKET_RECEIVED: SSH tunnel %s received a corrupt packet from the configured remote server.

Severity: Error

Explanation: A packet from the remote server was received that passed the TCP/IP checksum but failed the SSH checks.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SSH_TUNNEL_ESTABLISHED: SSH tunnel %s from local TCP port %s to %s:%s via %s@%s is established.

Severity: Info

Explanation: An SSH tunnel was just started to a remote server.

Recommended Action: No action is required – this message is for information only.

SSH_TUNNEL_HOSTKEY_VERIFY_FAILED: SSH tunnel %s was unable to connect to the configured host because it could not verify the hostkey of the remote host.

Severity: Error

Explanation: The switch is set to check all hostkeys of remote entities it connects to. Verification of the remote host failed and the switch did not connect.

Recommended Action: Make sure the known hosts for the switch contains the hostkey the remote SSH server is offering upon connection.

SSH_TUNNEL_HOSTNAME: SSH tunnel %s was unable to resolve hostname: %s

Severity: Error

Explanation: The SSH tunnel was unable to resolve the hostname and could not connect.

Recommended Action: Check the hostname and DNS resolution.

SSH_TUNNEL_INITIAL_TIMEOUT: SSH tunnel %s was unable to reach the remote host and the connection timed out.

Severity: Error

Explanation: SSH Tunnels have a limited amount of time to reach the host to make the connection. The tunnel was unable to find a route to the configured host in that timeframe.

Recommended Action: Check that the address for the configured host is correct and that a route exists from the switch to the host.

SSH_TUNNEL_LOCAL_PORT_ERROR: SSH Tunnel %s was unable to use the configured local port.

Severity: Error

Explanation: The switch was unable to use the local port for an SSH Tunneling connection.

Recommended Action: Use a different local port that is not being used by another program.

SSH_TUNNEL_LOG_FILE_TOO_LARGE: SSH Tunnel %s had its log file grow too large. The tunnel will be restarted since this is indicative of an issue.

Severity: Warning

Explanation: The log file of an SSH Tunnel is generally a fixed size unless there is an issue. Since the log file got too large a copy will be saved to the disk and the tunnel restarted.

Recommended Action: Check syslog and the tunnels log file at /etc/ssh/ to determine if there are any issues.

SSH_TUNNEL_REMOTE_PORT_ERROR: SSH Tunnel %s is unable to open the port on the remote host.

Severity: Error

Explanation: When the SSH Tunnel attempted to open a connection on the remote side it was prevented from doing so by the remote hosts SSH server.

Recommended Action: Make sure the remote server allows TCP forwarding, allows the configured port to be opened, and the port is not the point of a resource allocation conflict.

SSH_TUNNEL_SLOW_RESTART: SSH Tunnel %s will be delayed before restarting

Severity: Warning

Explanation: SSH Tunnels can only restart a limited number of times before they are delayed. This is to prevent bad connections from attempting to connect over and over. Once the tunnel successfully runs for some time, fast restarts will work again.

Recommended Action: Check for previous syslog messages regarding SSH tunnels. If this doesn't explain why the SSH Tunnel is restarting so often check the tunnel logs under /etc/ssh.

SSH_TUNNEL_SWITCH_HOSTKEY_DENIED: SSH tunnel %s was unable to log into its configured host via public-key authentication

Severity: Error

Explanation: The SSH tunnel attempted to log into the configured host with the switch's hostkey and was denied.

Recommended Action: Check that the switches public hostkey is installed on the remote host for the username that is being used to log in.

SSH_TUNNEL_TIMEOUT: SSH tunnel %s had the remote host timeout while connected.

Severity: Error

Explanation: The SSH tunnel periodically sends server alive messages through the tunnel and timed out on receiving a reply for them.

Recommended Action: Check that the remote host has its SSH server running and if it has any error messages in its log.

SSL_DIFFIE_HELLMAN_PARAMETERS_INIT_FAILED: Initializing SSL Diffie-Hellman parameters failed. Try 'reset ssl diffie-hellman parameters' to recover

Severity: Error

Explanation: Attempt to initialize SSL Diffie-Hellman parameters has failed.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SSL_DIFFIE_HELLMAN_PARAMETERS_RESET_FAILED: Resetting SSL Diffie-Hellman parameters failed. Existing parameters will be used

Severity: Error

Explanation: Attempt to reset SSL Diffie-Hellman parameters has failed. Existing Diffie-Hellman parameters will be used.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SSL_KEY_CERT_CREATED: SSL %s %s has been created with the %s hash of %s%s.

Severity: Info

Explanation: The SSL private key, certificate or certificate signing request has been created. This can happen when a SSL private key or certificate is generated in the system.

Recommended Action: No action is required – this message is for information only.

SSL_KEY_CERT_DELETED: SSL %s %s has been deleted with the previous %s hash of %s%s.

Severity: Info

Explanation: The SSL private key, certificate or certificate signing has been deleted. This can happen when a SSL private key or certificate is deleted from the system.

Recommended Action: No action is required – this message is for information only.

SSL_KEY_CERT_IMPORTED: SSL %s %s has been imported with the %s hash of %s%s.

Severity: Info

Explanation: The SSL private key or certificate has been imported. This can happen when a SSL private key or certificate is installed in the system.

Recommended Action: No action is required – this message is for information only.

SSL_KEY_CERT_UPDATED: SSL %s %s has been updated with the %s hash of %s%s from %s.

Severity: Info

Explanation: The SSL private key, certificate or certificate signing request has been updated. This can happen when an existing SSL private key or certificate is updated in the system.

Recommended Action: No action is required – this message is for information only.

SSL_PROFILE_FEATURE_UNSUPPORTED: SSL profile '%s' has '%s' configured which is not supported by the '%s' agent.

Severity: Warning

Explanation: The agent is configured to use an SSL profile whose feature-set it does not fully support.

Recommended Action: Reset the unsupported feature in the SSL profile or create a new profile without the feature for use by the agent.

SSL_PROFILE_INVALID: SSL profile '%s' is invalid. Check 'show management security ssl profile %s' for details

Severity: Error

Explanation: The SSL profile is invalid. Possible causes are missing certificate, missing key, mismatch of certificate with the key, expired or not yet valid certificate and non root certificate in the trusted list.

Recommended Action: Check 'show management security ssl profile' command and fix the errors reported under 'Error' column.

SSL_PROFILE_VALID: SSL profile '%s' is valid

Severity: Info

Explanation: The SSL profile is valid.

Recommended Action: No action is required – this message is for information only.

2.146 SERVERMONITOR Messages

SERVER_DISCOVERED: Server %s discovered on interface %s.

Severity: Info

Explanation: Server is discovered on the interface.

Recommended Action: No action is required – this message is for information only.

SERVER_DOWN: Server %s is down on interface %s.

Severity: Info

Explanation: Server is disconnected. Either the connecting link is down or the server has shutdown.

Recommended Action: No action is required – this message is for information only.

SERVER_INACTIVE: Server %s is inactive. It was last seen on interface %s.

Severity: Info

Explanation: The server is either not responding to any request or there's no active traffic flow. Hence, it's assumed that the server is inactive.

Recommended Action: No action is required – this message is for information only.

SERVER_MOVED: Server %s moved from interface %s to %s.

Severity: Info

Explanation: The switch discovered a server, previously learned on one interface, on another, different interface.

Recommended Action: No action is required – this message is for information only.

SERVER_PROXY_END: Proxy service ended for server %s on interface %s.

Severity: Notice

Explanation: Proxy service for the server has ended. Either the proxy service lifetime elapsed or the interface connecting to the server is link up again.

Recommended Action: No action is required – this message is for information only.

SERVER_PROXY_IGNORED: Proxy service for server %s on interface %s ignored due to static MAC entry

Severity: Notice

Explanation: Proxy service for the server is ignored as there is a static mac entry for the MAC Address of the server

Recommended Action: No action is required – this message is for information only.

SERVER_PROXY_LIMIT_EXCEEDED: Maximum number of servers that can be proxied simultaneously has been reached.

Severity: Notice

Explanation: A maximum of 256 servers can be proxied simultaneously. No additional failed server will be proxied after that limit has been reached.

Recommended Action: No action is required – this message is for information only.

SERVER_PROXY_LIMIT_NO_LONGER_EXCEEDED: Number of servers that are currently being proxied is below the maximum simultaneously proxied server limit.

Severity: Notice

Explanation: The number of servers currently being proxied is less than the maximum limit of 256. Additional failed servers will be proxied from now on.

Recommended Action: No action is required – this message is for information only.

SERVER_PROXY_START: Proxy service started for server %s on interface %s.

Severity: Notice

Explanation: Proxy service for the server has started. Any host that sends traffic to the server will be notified that the server is down.

Recommended Action: No action is required – this message is for information only.

SERVER_UP: Server %s is up on interface %s.

Severity: Info

Explanation: Server is connected and active on the interface.

Recommended Action: No action is required – this message is for information only.

2.147 SERVERPROBE Messages

SERVER_STATUS_CHANGE: Probe status of %s server '%s' port %d changed to %s

Severity: Notice

Explanation: The probe status of a server (up/down) has been changed.If a server is down, 802.1X authentication requests shall no longer be sent to it.

Recommended Action: Check the availability and reachability of the server

2.148 SFE Messages

CORE_SUSTAINED_BUSY: Software Data Plane Forwarding service is experiencing heavy load as it has been %d percent busy over last %d seconds

Severity: Warning

Explanation: Periodic load monitoring found that service was busy beyond expected threshold.

Recommended Action: Please consider increasing the capacity of your vEOS instance to handle current load conditions.

DISABLE_SERVICE: Software Data Plane Forwarding service is not running properly as it failed %s times in last %s minutes. System entering into fail-safe debug mode

Severity: Emergency

Explanation: Periodic health monitoring found that the said service was not running and attempt to restart it failed multiple times.

Recommended Action: Please contact Arista for technical support with all the logs

DPS_PATH_LIMIT_EXCEEDED: The number of DPS paths has exceeded the maximum permissible limit of %n. Not all paths have been programmed.

Severity: Error

Explanation: Some of the paths are in pending state and no new paths will be programmed unless the number of paths are below the maximum permissible limit.

Recommended Action: Reconfigure path-selection to bring the total number of paths below the permissible limit. This will enable these paths to be programmed.

DPS_PATH_LIMIT_NORMAL: All DPS paths have been successfully programmed.

Severity: Error

Explanation: The number of DPS paths is within the maximum permissible limit and all the paths have been successfully programmed.

Recommended Action: No action is required – this message is for information only.

DPS_PATH_STATE: The state of DPS path index %n from %a to %a (path group %s, peer %a) has changed to %s.

Severity: Info

Explanation: The named path state has changed

Recommended Action: No action is required – this message is for information only.

DPS_VNI_OUT_OF_RANGE: VNI %n configured for dynamic path selection VRF %s is out of range.

Severity: Warning

Explanation: The dynamic path selection is inactive on this VRF.

Recommended Action: Configure a VNI between 1 and 255.

FIPS_RESTART: Restarting Software Forwarding Engine(Sfe) agent for %s restrictions

Severity: Info

Explanation: Sfe agent needs to restart if the FIPS restrictions are changed

Recommended Action: No action is required – this message is for information only.

PATH_ACTIVE: Group %s path %a to %a (ID:%n) to peer %s is active for traffic class %u.

Severity: Info

Explanation: The named path is active. Traffic is able to pass through.

Recommended Action: No action is required – this message is for information only.

PATH_INACTIVE: Group %s path %a to %a (ID:%n) to peer %s is inactive for traffic class %u.

Severity: Info

Explanation: The named path is inactive. Traffic is not able to pass through.

Recommended Action: To make this path active again, restore connectivity to the peer via this path.

ROUTECACHE_SUBINTF_UNSUPPORTED: The software forwarding engine does not support encapsulating VXLAN packets and sending them to an underlay egress subinterface. This may cause packets to be dropped.

Severity: Warning

Explanation: The software forwarding engine does not support encapsulating VXLAN packets and sending them to an underlay egress subinterface. This may cause packets to be dropped.

Recommended Action: No action is required – this message is for information only.

2.149 SFLOW Messages

FPGA_CRC_ERROR: %s detected CRC correctable error

Severity: Warning

Explanation: Some Sflow samples may be missed

Recommended Action: No action is required – this message is for information only.

FPGA_PARITY_ERROR: Software detected a parity error in %s

Severity: Warning

Explanation: Sflow fpga reported parity error during memory read

Recommended Action: No action is required – this message is for information only.

FPGA_UNCORRECTABLE_CRC_ERROR: %s detected Uncorrectable CRC Error

Severity: Error

Explanation: Reboot or reset linecard

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

HARDWARE_COLLECTOR_UDP_PORT_LIMIT_EXCEEDED: Sflow collector %s in VRF %s is inactive, because it exceeds the maximum supported number of unique UDP ports %d.

Severity: Warning

Explanation: When the maximum supported number of unique collector's UDP ports is exceeded, newly added sflow collector config is not programmed into hardware.

Recommended Action: Reduce the number of unique collector's UDP ports.

HARDWARE_FALLBACK_TO_SOFTWARE: Switching from hardware-accelerated to software sFlow because %s

Severity: Info

Explanation: The system is falling back to software sFlow because hardware-accelerated sFlow is incompatible with the current configuration.

Recommended Action: No action is required – this message is for information only.

HARDWARE_FEATURE_NEEDS_RESTART: Need a system restart to activate hardware-accelerated sFlow feature: %s

Severity: Info

Explanation: The configured sFlow extension requires a system restart to take effect with hardware-accelerated sFlow.

Recommended Action: Restart the system

HARDWARE_OUTPUT_SUBINTF_UNSUPPORTED: Hardware-accelerated sFlow does not support output subinterfaces on systems containing 7500E Series linecards

Severity: Warning

Explanation: On systems with 7500E Series linecards, output ports in hardware-accelerated sFlow datagrams will be shown as the parent interface's index rather than the subinterface's index.

Recommended Action: No action is required – this message is for information only.

HARDWARE_RESOURCE_FULL: Hardware resources are insufficient to program all entries in '%s' table.

Severity: Warning

Explanation: The switch is unable to program one or more entries due to insufficient hardware resources.

Recommended Action: Reconfigure SubInterfaces to reduce the number of entries in the switch.

HARDWARE_RESOURCE_NORMAL: All sFlow entries are programmed in hardware '%s' table.

Severity: Info

Explanation: The switch was able to program all the entries in hardware.

Recommended Action: No action is required – this message is for information only.

HARDWARE_TOO_MANY_COLLECTORS: Too many sFlow collectors (configured %d, max: %d)

Severity: Warning

Explanation: The number of configured sFlow collectors exceeds the number of supported collectors for accelerated sFlow. Some collectors will be ignored.

Recommended Action: No action is required – this message is for information only.

HARDWARE_UNSUPPORTED_FEATURE: Ignoring unsupported feature with hardware-accelerated sFlow: %s

Severity: Info

Explanation: The configured sFlow extension or advanced capability is not supported with hardware-accelerated sFlow and will only take effect with software sFlow.

Recommended Action: No action is required – this message is for information only.

NETLINK_ERROR: Sflow netlink has encountered an error: %s

Severity: Error

Explanation: Sflow netlink has encountered an error.

Recommended Action: Sflow netlink has encountered an error.

2.150 SNMP Messages

TRAP_LIMIT_EXCEEDED: The SNMP trap limit has been exceeded and some traps are being dropped.

Severity: Warning

Explanation: The switch is unable to process some enqueued SNMP traps due to increased volume and is dropping traps.

Recommended Action: No action is required; investigate the reason behind the trap surge if necessary.

TRAP_OVERFLOW_START: The SNMP trap queue has entered an overflow state.

Severity: Warning

Explanation: The absolute SNMP trap limit has nearly been reached, but no traps have been dropped yet.

Recommended Action: No action is required; investigate the reason behind the trap surge if necessary.

TRAP_OVERFLOW_STOP: The SNMP trap queue has exited an overflow state.

Severity: Warning

Explanation: The SNMP trap queue has returned to normal status.

Recommended Action: No action is required; investigate the reason behind the trap surge if necessary.

2.151 SPANTREE Messages

BLOCK_BPDUGUARD: Received BPDU packet on %s with BPDU guard enabled. Disabling interface. (source mac %s)

Severity: Warning

Explanation: The switch received a Spanning Tree BPDU packet on a port which has BPDU guard enabled. When the switch receives a BPDU packet on a BPDU guard enabled port, it disables the port and drops the BPDU packet without further processing.

Recommended Action: The switch received a Spanning Tree BPDU packet on a port which has BPDU guard enabled. BPDU guard is configured directly for a port, or globally configured for all portfast interfaces. BPDU guard is typically enabled on portfast or edge ports that are connected to end hosts. BPDU packets are not expected to be received on portfast ports by the switch, and processing them can lead to problems in Spanning Tree. So, when the switch receives a BPDU packet on a port with BPDU guard enabled, it disables the port. To address the issue, either remove the device attached to the port that is sending the BPDU packet, or disable BPDU guard. After resolving the issue, the port can be enabled by issuing the shutdown command, followed by no shutdown command in interface configuration mode.

BLOCK_RATELIMITER: Exceeded BPDU rate limiter on %s

Severity: Warning

Explanation: The switch received more Spanning Tree BPDUs than allowed by the configured maximum. The port has been disabled to prevent a denial-of-service from excessive CPU usage.

Recommended Action: The switch received more BPDUs on a given port than allowed by the BPDU rate limiter configured for that port, or the global rate limiter. In order to prevent a suspected denial-of-service attack, the switch has disabled the port. Figure out why the number of BPDUs received on the port exceeds the expected maximum, and re-enable the port.

DISABLED: Spanning tree is disabled.

Severity: Info

Explanation: The spanning tree protocol is disabled. All ports are forwarding.

Recommended Action: No action is required – this message is for information only.

INTERFACE_ADD: Interface %s has been added to instance %s

Severity: Info

Explanation: The given interface is now running the given spanning tree instance.

Recommended Action: No action is required – this message is for information only.

INTERFACE_BRIDGE_ASSURANCE_ENTER: Interface %s in %s is entering the bridge assurance inconsistent state

Severity: Warning

Explanation: The given interface is configured as a network port with bridge assurance. Thus, it should be connected to another bridge running bridge assurance at all times. However, the interface has not been receiving BPDUs so it has been set to inconsistent to avoid STP loops.

Recommended Action: The port will exit the inconsistent state if it begins receiving BPDUs again, bridge assurance is disabled, or the port is reconfigured as a non-network port.

INTERFACE_BRIDGE_ASSURANCE_EXIT: Interface %s in %s is exiting the bridge assurance inconsistent state

Severity: Warning

Explanation: The given interface was previously in the bridge assurance inconsistent state in order to avoid STP loops. This state has been cleared, and normal operation has resumed.

Recommended Action: The port exited the inconsistent state either because it began receiving BPDUs again, bridge assurance was disabled on the interface, or the port is no longer configured a network port.

INTERFACE_DEL: Interface %s has been removed from instance %s

Severity: Info

Explanation: The given interface is no longer running the given spanning tree instance.

Recommended Action: No action is required – this message is for information only.

INTERFACE_SELF_LOOPED: Interface %s received its own bpd: blocking interface (bridge mac %s port id %d%s)

Severity: Warning

Explanation: The given interface received a bpd that it transmitted. To prevent a spanning tree loop from developing, the switch blocks the interface.

Recommended Action: No action is required – this message is for information only.

INTERFACE_SELF_LOOP_CLEARED: Interface %s has stopped receiving its own bpd: recovering interface.(bridge mac %s port id %d%s)

Severity: Info

Explanation: The given interface has stopped receiving a bpd that it transmitted. It is no longer self looped. Switch is recovering the interface.

Recommended Action: No action is required – this message is for information only.

INTERFACE_STATE: Interface %s instance %s moving from %s to %s

Severity: Info

Explanation: The spanning tree state of the interface in the given instance changed to the given new state.

Recommended Action: No action is required – this message is for information only.

LOOPGUARD_BLOCK: Loop guard blocking port %s on %s

Severity: Warning

Explanation: The spanning tree loop guard feature detected a failure to receive BPDU messages from the neighbor on the loop guard enabled interface. The interface is blocked to prevent a potential loop.

Recommended Action: Check the neighboring spanning tree bridge to make sure it is configured and working properly. If it is, check to see if the physical connection between the two bridges is properly carrying traffic in both directions.

LOOPGUARD_CONFIG_CHANGE: Loop guard %s on port %s.

Severity: Info

Explanation: The spanning tree loop guard feature was enabled or disabled on the given interface.

Recommended Action: No action is required – this message is for information only.

LOOPGUARD_UNBLOCK: Loop guard unblocking port %s on %s

Severity: Warning

Explanation: The spanning tree loop guard feature detected a return to receiving BPDU messages from the neighbor on the loop guard enabled interface where it had previously detected a problem. The interface is unblocked.

Recommended Action: No action is required – this message is for information only.

MODE_CHANGE: Spanning tree mode is now %s.

Severity: Info

Explanation: The spanning tree operating mode has changed.

Recommended Action: No action is required – this message is for information only.

MSTPVST_BORDER_CLEARED: Cleared MST-PVST border on %s

Severity: Info

Explanation: The given interface is no longer a border port facing PVST region.

Recommended Action: No action is required – this message is for information only.

MSTPVST_BORDER_DETECTED: Detected MST-PVST border on %s

Severity: Info

Explanation: The given interface is a border port facing a PVST region.

Recommended Action: No action is required – this message is for information only.

MSTPVST_BORDER_INCONSISTENT_ENTER: Interface %s is entering the PVST inconsistent state

Severity: Warning

Explanation: The given interface is a border port facing PVST region. However, the interface is receiving PVST BPDUs with inconsistent root information so it has been set to inconsistent to avoid STP loops.

Recommended Action: The interface will exit the PVST inconsistent state if it begins receiving PVST BPDUs with consistent root information or interface is connected to MST region or MST-PVST interoperation is disabled.

MSTPVST_BORDER_INCONSISTENT_EXIT: Interface %s is exiting the PVST inconsistent state

Severity: Warning

Explanation: The given interface was previously in PVST inconsistent state in order to avoid STP loops. This state has been cleared, and normal operation has resumed.

Recommended Action: The port exited the PVST inconsistent state either because it began receiving PVST BPDUs with consistent root information or interface is connected to MST region or MST-PVST interoperation is disabled.

MSTP_REGION_BORDER_CLEARED: MSTP region border cleared on %s

Severity: Info

Explanation: The given interface is no longer a MSTP border.

Recommended Action: No action is required – this message is for information only.

MSTP_REGION_BORDER_DETECTED: MSTP region border detected on %s

Severity: Info

Explanation: The given interface is a MSTP border facing another region

Recommended Action: No action is required – this message is for information only.

OVERRIDE: Spanning tree is disabled, port state is controlled by %s.

Severity: Info

Explanation: The spanning tree protocol is disabled and port state is now controlled by the specified feature.

Recommended Action: No action is required – this message is for information only.

PORT_ID_LIMIT_EXCEEDED: STP port ID allocation exceeds maximum limit of %d with %d-%d reserved for port channels

Severity: Error

Explanation: Some interfaces do not have port IDs allocated because the number of unreserved port IDs is not enough

Recommended Action: Determine that numbers of configured interfaces are within the reserved and unreserved port ID limits

PORT_ID_LIMIT_EXCEEDED_RECOVERY: STP port ID allocation recovered from maximum limit exceeded

Severity: Info

Explanation: Port IDs are available to be assigned to all interfaces.

Recommended Action: No action is required – this message is for information only.

ROOTCHANGE: Root changed for instance %s: new root interface is %s, new root bridge mac address is %s %s

Severity: Info

Explanation: The spanning tree root bridge of the given instance changed to the given new value.

Recommended Action: No action is required – this message is for information only.

ROOTGUARD_BLOCK: Root guard blocking port %s on %s

Severity: Warning

Explanation: The spanning tree root guard feature detected a failure. The bridge received a superior BPDU on the root guard enabled interface. The interface is blocked to prevent use of an improper root bridge in the network.

Recommended Action: Check the neighboring spanning tree bridge to make sure it is configured and working properly.

ROOTGUARD_CONFIG_CHANGE: Root guard %s on port %s.

Severity: Info

Explanation: The spanning tree root guard feature was enabled or disabled on the given interface.

Recommended Action: No action is required – this message is for information only.

ROOTGUARD_UNBLOCK: Root guard unblocking port %s on %s

Severity: Warning

Explanation: The spanning tree root guard feature detected the restoration of proper, inferior BPDUs being received on the root guard enabled interface. The interface is unblocked.

Recommended Action: No action is required – this message is for information only.

RXDOT1QPKT: A non-standard IEEE BPDU packet was received and discarded on interface %s (source mac %s). The packet was inconsistent with the IEEE standard, because it was encapsulated with an 802.1Q header.

Severity: Warning

Explanation: The switch received an 802.1Q tagged Spanning Tree BPDU packet. Arista Networks switches drop these packets without further processing, so the protocol may not function properly on the receiving interface. To fix this problem, reconfigure the sending switch to transmit its Spanning Tree BPDU packets untagged or configure 'l2-protocol encapsulation dot1q vlan <x>' on Arista switches to enable tagged BPDU processing.

Recommended Action: The switch received an 802.1Q tagged Spanning Tree BPDU packet. According to the IEEE Spanning Tree standards (802.1D, 802.1w, and 802.1s), Spanning Tree BPDU packets are to be sent untagged. Various vendors use proprietary extensions to the standard that send tagged Spanning Tree BPDU packets. Arista Networks switches drop these tagged packets without further processing, so the Spanning Tree protocol may not function properly on the receiving interface. To fix this problem, reconfigure the sending switch to transmit its Spanning Tree BPDU packets untagged. This usually requires configuring the sending switch to use a single Spanning Tree or to use the IEEE standard Multiple Spanning Tree (802.1s) mode of the protocol. It may also require explicitly configuring the sending switch to send its Spanning Tree BPDU packets untagged. Another workaround is to run the command 'l2-protocol encapsulation dot1q vlan <x>' command

STABLE_CHANGE: Stp state is now %s

Severity: Info

Explanation: Spanning tree topology transitioned from/to a stable state. If it is currently unstable, then STP reconvergence will occur if the Stp agent restarts, or if MLAG failover occurs, or if stateful supervisor switchover occurs.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TOPOLOGY_ASSIGNED: A spanning tree topology has been assigned to VLAN %s

Severity: Info

Explanation: A VLAN that previously had no assigned topology due to maximum limit exceeded has now been assigned one.

Recommended Action: No action is required – this message is for information only.

TOPOLOGY_LIMIT_EXCEEDED: No topology created for VLAN %s. The maximum number of supported topologies is %s. The number of configured VLANs is %s more than the number of allowed topologies

Severity: Warning

Explanation: Maximum allowed spanning tree topologies exceeded. All traffic on this VLAN will be discarded.

Recommended Action: Remove some active vlans to go within the maximum limit supported.

TOPOLOGY_MISMATCH: VLAN %s is not on the same topology as its primary VLAN %s.

Severity: Warning

Explanation: A primary VLAN and its secondary VLANs must be on the same topology. Spanning tree is disabled on any secondary VLAN that does not share a topology with its primary VLAN.

Recommended Action: Assign the primary and secondary VLANs to the same topology.

2.152 SRP2MP Messages

REPLICATION_SEGMENT_CONFLICT_RSID_IN_USE: The replication segment identified by protocol %s, root address %s, tree ID %u, instance ID %u, replication ID %u, node address %s is unusable: Replication SID(%u) is already present and conflicts with the new replication segment

Severity: Warning

Explanation: The replication segment received has the same replication SID as an existing replication segment

Recommended Action: Replication SIDs need to be unique across all replication segments.

REPLICATION_SEGMENT_INVALID_NO_SEGMENT_LISTS: The replication segment identified by protocol %s, root address %s, tree ID %u, instance ID %u, replication ID %u, node address %s is unusable: Replication segment does not have a segment list

Severity: Warning

Explanation: The replication segment is unusable as it does not have a segment list

Recommended Action: The configuration needs to be changed so that the replication segment has at least one segment list.

REPLICATION_SEGMENT_INVALID_RSID_IN_USE_OTHER_APPLICATION: The replication segment identified by protocol %s, root address %s, tree ID %u, instance ID %u, replication ID %u, node address %s is unusable: Replication SID(%u) already in use by another application

Severity: Warning

Explanation: The replication segment is unusable as the replication SID is used by another application

Recommended Action: The configuration needs to be changed so that the replication SID is unique across all users of the SRLB range.

REPLICATION_SEGMENT_INVALID_RSID_MISSING: The replication segment identified by protocol %s, root address %s, tree ID %u, instance ID %u, replication ID %u, node address %s is unusable: Replication segment does not have a replication SID

Severity: Warning

Explanation: The replication segment is unusable as it does not have a replication SID

Recommended Action: The configuration needs to be changed so that the replication segment has a replication SID.

REPLICATION_SEGMENT_INVALID_RSID_OUT_OF_RANGE: The replication segment identified by protocol %s, root address %s, tree ID %u, instance ID %u, replication ID %u, node address %s is unusable: Replication SID(%u) is outside the range [%u, %u]

Severity: Warning

Explanation: The replication SID in the replication segment is not within the configured SRLB range

Recommended Action: The configuration needs to be changed so that the replication SID is within the allowed SRLB range.

REPLICATION_SEGMENT_LABEL_STACK_SIZE_EXCEEDED: The replication segment identified by protocol %s, root address %s, tree ID %u, instance ID %u, replication ID %u, node address %s is unusable: The number of labels in segment list (%u) exceeds the maximum supported (%u)

Severity: Warning

Explanation: The configured replication segment contains more than one label in the segment list

Recommended Action: The replication segment needs to be modified such that the configured labels in segment list contains only one label.

REPLICATION_SEGMENT_SEGMENT_LISTS_EXCEEDED: The replication segment identified by protocol %s, root address %s, tree ID %u, instance ID %u, replication ID %u, node address %s is unusable: Number of segment lists(%u) exceeds the maximum supported(%u)

Severity: Warning

Explanation: The configured replication segment contains more than the maximum supported segment lists

Recommended Action: The replication segment needs to be modified such that the configured segment list contains less than or equal to the maximum supported segment lists.

REPLICATION_SEGMENT_SEGMENT_LIST_NO_LABEL: The replication segment identified by protocol %s, root address %s, tree ID %u, instance ID %u, replication ID %u, node address %s segment list is unusable: Segment list has no label

Severity: Warning

Explanation: The segment list is unusable as it does not have a label

Recommended Action: The configuration needs to be changed so that the segment list has at least one label.

2.153 SRTE Messages

POLICY_CONFLICT_BSID_IN_USE: Endpoint %s, color %u, protocol %s, originator %s(AS%u), discriminator %u is unusable, BSID(%u) already present, conflicts with Endpoint %s, color %u, protocol %s, originator %s(AS%u), discriminator %u

Severity: Warning

Explanation: Policy received has the same Binding SID as an existing policy

Recommended Action: Binding SID needs to be unique across all policies

POLICY_INVALID_BSID_IN_USE_OTHER_APPLICATION: Endpoint %s, color %u, protocol %s, originator %s(AS%u), discriminator %u is unusable: BSID(%u) already in use by another application

Severity: Warning

Explanation: Policy is unusable as binding SID is used by another application

Recommended Action: The configuration needs to be changed so that Binding SID is unique across all users of SRLB range

POLICY_INVALID_BSID_MISSING: Endpoint %s, color %u, protocol %s, originator %s(AS%u), discriminator %u is unusable

Severity: Warning

Explanation: Policy is unusable as it does not have a binding SID

Recommended Action: The configuration needs to be changed so that policy has a Binding SID

POLICY_INVALID_BSID_OUT_OF_RANGE: Endpoint %s, color %u, protocol %s, originator %s(AS%u), discriminator %u is unusable: BSID(%u) is outside SRLB [%u, %u]

Severity: Warning

Explanation: BSID in policy is not within the configured SRLB range

Recommended Action: The configuration needs to be changed so that the BSID is within the allowed SRLB range

POLICY_INVALID_NO_SEGMENT_LISTS: Endpoint %s, color %u, protocol %s, originator %s(AS%u), discriminator %u is unusable

Severity: Warning

Explanation: Policy is unusable as it does not have a segment-list

Recommended Action: The configuration needs to be changed so that policy has at least one segment list

POLICY_SEGMENT_LISTS_EXCEEDED: Number of segment lists(%u) in candidate path with endpoint %s, color %u, protocol %s, originator %s(AS%u), discriminator %u exceeds the maximum supported(%u)

Severity: Warning

Explanation: Configured candidate path contains more than maximum supported segment lists

Recommended Action: Candidate path needs to be modified such that the received segment list contains less than equal to maximum supported segment lists

RESOLVED_SEGMENT_LIST_BACKUP_EXCEEDS_MSD: Resolved segment list (ID %u) for the backup path exceeds the maximum supported hardware label push stack depth (%u), was configured with labels %s

Severity: Warning

Explanation: Backup path of Segment list post resolution of the top label exceeds the maximum SID depth of the platform's hardware.

Recommended Action: The configuration needs to be changed such that the segment list after resolution of the top label does not exceed the platform's MSD

RESOLVED_SEGMENT_LIST_INVALID_EXCEEDS_MSD: Resolved segment list (ID %u) exceeds maximum supported hardware label push stack depth (%u), was configured with labels %s

Severity: Warning

Explanation: Segment list post resolution of the top label exceeds the maximum SID depth of the platform's hardware.

Recommended Action: The configuration needs to be changed such that the segment list after resolution of the top label does not exceed the platform's MSD

2.154 SRV6 Messages

LOCATOR_SID_FUNCTION_EXHAUSTION: %s ran out of SRv6 SID functions for locator '%s' in the '%s' range

Severity: Error

Explanation: A request for a local SID was processed when the range is fully allocated.

Recommended Action: Please increase the configured size of the locator's SID function range and contact your support representative if the problem persists.

LOCATOR_SID_FUNCTION_USE_NORMAL: %s's SRv6 SID function usage for locator '%s' in the '%s' range is back to normal.

Severity: Error

Explanation: An SRv6 SID function range that had been exhausted has obtained available functions.

Recommended Action: No action is required – this message is for information only.

2.155 SSO Messages

DATA_CHECKSUM_ERROR: SSO hardware shadow memory on standby does not match active for %s

Severity: Info

Explanation: SSO software will take corrective action

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.156 STAGEMGR Messages

FATAL_ERROR_REBOOT_REQUEST: Agent %s encountered a fatal error. The system will restart now. (%s)

Severity: Error

Explanation: One or more agents has encountered a problem. The system will now save diagnostic information and do a normal reload to fix the problem.

Recommended Action: The system has generated diagnostic information to help pinpoint the failure. Please contact your technical support representative to find out how to send this information to Arista.

GLOBAL_STAGE_COMPLETION_TIMEOUT: Global stage progression did not complete after %s secs.

Severity: Error

Explanation: Stage progression took longer than the global timeout limit, rebooting system to proceed.

Recommended Action: No action is required – this message is for information only.

PERSISTENT_RESTART_LOG_REQUEST: Agent %s encountered a non-fatal error prior to reload. (%s)

Severity: Warning

Explanation: An agent encountered a problem prior to restarting the system.

Recommended Action: No action is required – this message is for information only.

STAGE_COMPLETE_AFTER_TIMEOUT: %s resumed after stage %s completed after timeout.

Severity: Warning

Explanation: A stage that had been taking longer than expected to complete has now completed. Stages that depend on this completion are able to proceed.

Recommended Action: No action is required – this message is for information only.

STAGE_SLOW: %s stage %s timed out

Severity: Warning

Explanation: A stage in progression is taking longer than expected. Stages that depend on this stage will begin after this stage is completed.

Recommended Action: No action is required – this message is for information only.

2.157 STORAGEDEVICE Messages

DETECTION_ERROR: Failed to detect storage device %s on bootup.

Severity: Error

Explanation: Failed to detect a storage device during system bootup. This can happen if the device is not recognized by the driver or if the system encountered an error when booting up.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

IO_ERROR: %s (SN:%s Model:%s Firmware:%s) has read or write errors and is unstable.

Severity: Error

Explanation: Storage device is reporting problems. This could mean faulty hardware or device reaching end of life.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

IO_ERROR_EXTERNAL_USB: USB storage at %s (SN:%s Model:%s Firmware:%s) appears to be faulty.

Severity: Error

Explanation: Storage device is reporting problems. This could mean faulty hardware.

Recommended Action: Please check and replace external USB drive.

MONITOR_ERROR: A test operation (%s) encountered an error on %s (SN:%s Model:%s Firmware:%s): %s

Severity: Error

Explanation: Monitoring of a storage device experienced an error. This could indicate underlying issues with the physical medium.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

MONITOR_WARNING: disk utilization on %s (SN:%s Model:%s Firmware:%s) %s

Severity: Warning

Explanation: Monitoring of a storage device has detected low disk space.

Recommended Action: Please archive and delete unnecessary data files on this device.

OFFLINE: A removal event occurred unexpectedly for internal storage device %s

Severity: Error

Explanation: The kernel notified userspace that an internal storage device was removed from the system. This could indicate a problem with the bus or the device itself.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

PARTITION_NOT_MOUNTED: Storage device partition %s not mounted as %s

Severity: Error

Explanation: The specified storage device partition is not currently mounted. This can happen if the partition is not properly formatted or if the storage device was not detected by the driver.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

UNEXPECTED_PARTITION_MOUNTED: Unexpected partition %s mounted as %s. Expected storage device partition %s to be mounted instead.

Severity: Error

Explanation: Expected the specified storage device partition to be mounted at the mount point but a different partition is mounted instead. This is unexpected.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

2.158 STORM Messages

CONTROL_POLICER_PROFILE_HW_RESOURCE_FULL: Hardware resources are insufficient to program policer profile on interface %s.

Severity: Error

Explanation: The switch is unable to program the Storm Control feature because all meter profile resources are in use currently.Reduce the number of policers applied on interfaces or reconfigure policers to use fewer policer profiles to free up resources.

Recommended Action: Remove and reapply the config on the interfaces after modifications to enable the policing.

CONTROL_SUBINTERFACE_TCAM_PROFILE_UNSUPPORTED: storm-control subinterface feature applied on interface %s is not supported in the TCAM.

Severity: Error

Explanation: The feature is not supported in the TCAM profile. Check that the feature 'storm-control subintf' is present in the TCAM feature set.

Recommended Action: No action is required – this message is for information only.

2.159 STRATA Messages

ACL_SLICE_SHARING_MODE_CHANGE: Change in slice sharing behavior for IPv4, IPv6 behavior

Severity: Info

Explanation: The forwarding agent will restart to share/unshare slice for ACL

Recommended Action: No action is required – this message is for information only.

AGENT_RESTART: Strata agent requires to be restarted due to an unrecoverable exception, %s

Severity: Error

Explanation: An exception has occurred on the switch. StrataAgent will be restarted.

Recommended Action: No action is required – this message is for information only.

CONFIG_CHANGE: Configuration change requires the Strata agent %s to restart

Severity: Info

Explanation: Configuration change requires the switch ASIC to be reconfigured, requiring the Strata agent to restart.

Recommended Action: No action is required – this message is for information only.

COPROCESSOR_STUCK: Detected coprocessor stuck %s

Severity: Error

Explanation: A fatal error affecting hardware programming occurred in a Strata switching ASIC. The Strata agent will restart in order to recover from this error.

Recommended Action: No action is required – this message is for information only.

CUT_THROUGH_MODE_DISABLE: Cut-through forwarding mode is being disabled because one or more cards that does not support cut-through has been detected.

Severity: Warning

Explanation: Cut-through forwarding mode is only enabled when all the line cards and fabric cards in the system support the cut-through feature.

Recommended Action: To re-enable cut-through forwarding mode, replace the cards that don't have the feature supported

CUT_THROUGH_MODE_ENABLE: Cut-through forwarding mode is now enabled

Severity: Warning

Explanation: Cut-through forwarding mode is only enabled when all the line cards and fabric cards in the system support the cut-through feature.

Recommended Action: No action is required – this message is for information only.

DIRECTED_BROADCAST_HW_PROGRAMMING_ERROR: Timeout/Unknown failure happened while programming directed broadcast rules in hardware.

Severity: Error

Explanation: The switch is unable to program all directed broadcast rules due to atimeout/unknown failure during hardware programming in the TCAM.

Recommended Action: Try disabling and enabling directed broadcast or check for the forwarding agent(s) to be running or reconfigure directed broadcast rules to reduce the size and then reapply the directed broadcast configuration.

DIRECTED_BROADCAST_HW_RESOURCE_FULL: Hardware resources are insufficient to program all directed broadcast rules.

Severity: Error

Explanation: The switch is unable to program all directed broadcast rules due to insufficient hardware resources available in the TCAM.

Recommended Action: Reconfigure directed broadcast rules to reduce the size and/or reconfigure other features using TCAM hardware resources to reduce their usage and then reapply the broadcast configuration.

DIRECTED_BROADCAST_PROGRAMMING_NORMAL: All directed broadcast rules programmed successfully in hardware.

Severity: Error

Explanation: The switch was able to program all directed broadcast rules in the hardware.

Recommended Action: No action is required – this message is for information only.

DLB_ECMP_GROUPS_FULL: Hardware has run out of DLB IDs to assign to the ECMP nexthop groups

Severity: Warning

Explanation: The switch is unable to assign DLB IDs to the ECMP nexthop groups due to insufficient hardware resources. As a result, dynamic load balancing will not be enabled on the rest of the ECMP nexthop groups.

Recommended Action: Please disable DLB on a few ECMP nexthop groups to allow for DLB on other ECMP nexthop groups.

DLB_ECMP_GROUPS_NORMAL: Hardware resources are available to assign DLB IDs to the ECMP nexthop groups

Severity: Warning

Explanation: The switch was able to assign DLB IDs to all the configured ECMP nexthop groups.

Recommended Action:

DLB_ECMP_MEMBERS_EXCEEDED_MAX_LIMIT: This ECMP nexthop group has more member nexthops than the maximum allowed for supporting DLB

Severity: Error

Explanation: Load will not be balanced across all member nexthops

Recommended Action: Please reduce the number of member nexthops for this ECMP group to allow DLB to function properly

DLB_LAG_GROUPS_FULL: Hardware has run out of DLB IDs to assign to the LAG group

Severity: Warning

Explanation: The switch is unable to assign DLB IDs to the LAG group due to insufficient hardware resources. As a result, dynamic load balancing will not be enabled on the rest of the LAG group.

Recommended Action:

DLB_LAG_GROUPS_NORMAL: Hardware resources are available to assign DLB IDs to the LAG groups

Severity: Warning

Explanation: The switch was able to assign DLB IDs to all the configured LAG groups

Recommended Action:

ECMP_GROUP_TABLE_PARITY_ERROR_RECOVERY_FAILED: Failed to reconstruct entryId %d in initialL3EcmpGroupTbl/l3EcmpGroupTbl

Severity: Error

Explanation: due to parity error in both of the tables.

Recommended Action: No action is required – this message is for information only.

ECMP_TABLE_PARITY_ERROR_RECOVERY_FAILED: Failed to reconstruct entryId %d in initialL3EcmpTbl/l3EcmpTbl

Severity: Error

Explanation: due to parity error in both of the tables.

Recommended Action: No action is required – this message is for information only.

EGRESS_ACL_VXLAN_V6UNDERLAY_CHANGE: Change in IPv6 VXLAN underlay configuration with egress ACLs applied

Severity: Info

Explanation: The forwarding agent will restart to install/uninstall ACL hardware resources associated with these ACLs

Recommended Action: No action is required – this message is for information only.

EGRESS_IP_BYTE_COUNTER_TCAM_FULL: Programming Egress IP byte counters failed

Severity: Error

Explanation: The switch cannot enable IP byte counters due to insufficient egress TCAM resources.

Recommended Action: Reconfigure other features that use egress TCAMs to free up resources

EGRESS_VLAN_DF_FULL: Hardware resources are insufficient to program direct flow with opaqueId %d in egress vlan translate table

Severity: Error

Explanation: The switch is unable to program all Direct Flow rules due to insufficient hardware resources.

Recommended Action: The platform supports up to 4k egress Direct Flows

EGRESS_VLAN_TRANSLATION_FULL: Hardware resources are insufficient to program all egress VLAN translation operations (%s, %d, %s, %d)

Severity: Error

Explanation: The switch is unable to program all egress VLAN translations due to insufficient hardware resources.

Recommended Action: The platform supports egress VLAN translation only upto 127 ports per chip

EGRESS_VLAN_TRANSLATION_IFA_FULL: Hardware resources are insufficient to add %s

Severity: Error

Explanation: The specified entry could not be programmed due to insufficient hardware resources

Recommended Action: Reconfigure the network to reduce the number of entries in the hardware

EGRESS_VLAN_TRANSLATION_NAT_FULL: Hardware resources are insufficient to program all Network Address Translation operations (%s)

Severity: Error

Explanation: The switch is unable to program all NAT rules due to insufficient hardware resources.

Recommended Action: The platform supports egress VLAN translation only upto 127 ports per chip

EGR_L3_NH_MAC_DA_PROFILE_TABLE_FULL: Hardware resources are insufficient to add an EGR_L3_NH adjacency for %s

Severity: Error

Explanation: The switch is unable to create a destination MAC profile for VXLAN HER entry due to insufficient hardware resources. Traffic forwarding will not happen to this MAC address.

Recommended Action: Reconfigure your network to use lesser number of downlink vxlan core ports or have Arp entry to remote vtep be learnt on an interface .

EVPN_ETREE_TCAM_RESOURCE_FULL: Hardware resources are insufficient to add EVPN E-Tree VLAN %s rule.

Severity: Error

Explanation: The switch is unable to program TCAM entries needed for EVPN E-Tree feature.

Recommended Action: Reconfigure the system to clear up hardware resources before flapping the EVPN E-Tree role configuration to reprogram TCAM entries.

EVPN_ETREE_TCAM_RESOURCE_NORMAL: Hardware resource recovery from EVPN E-Tree TCAM exhaustion.

Severity: Error

Explanation: The switch has recovered from TCAM exhaustion. Entries for EVPN E-Tree are able to be installed now.

Recommended Action: No action is required – this message is for information only.

EXPECTED_AGENT_EXIT: Slice agent will exit and restart because %s.

Severity: Info

Explanation: Slice agent will exit and restart. All traffic through the forwarding chip managed by the restarting slice agent will be dropped. This behaviour is expected.

Recommended Action: No action is required – this message is for information only.

FABRIC_HITLESS_INIT_ERR: An error occurred during hitless initialization of %s (%s)

Severity: Error

Explanation: During restart of a Strata agent, a best effort is made to hitlessly recover the agent to minimize traffic disruption. Sometimes an error can occur while initializing the fabric agent. The agent reverts to hitfully initializing. This could potentially disrupt traffic while the agent is restarting

Recommended Action: No action is required – this message is for information only.

FABRIC_LINK_ERR_DISABLED: Fabric link %s is disabled due to errors %s

Severity: Error

Explanation: Fabric interface is disabled when its link fails to come up or there are too many flaps

Recommended Action: Remove and re-insert linecard or fabric card the impacted fabric link connects to

FABRIC_LINK_FLAP: Fabric link %s is flapping

Severity: Warning

Explanation: Link on fabric interface comes up and down while connected to its peer interface

Recommended Action: Remove and re-insert linecard or fabric card the impacted fabric link connects to

FLEXHASHING_RESOURCE_FULL: Hardware resources on %s are insufficient to add all UDF hash entries

Severity: Error

Explanation: The switch is unable to program UDF hash configuration due to insufficient hardware resources..

Recommended Action: Reconfigure your switch to reduce the number of UDF hash configurations.

FLEXHASHING_RESOURCE_NORMAL: All UDF hash entries on %s are programmed in hardware

Severity: Error

Explanation: The switch was able to program UDF hash configuration in the hardware.

Recommended Action: No action is required – this message is for information only.

FLOW_TRACKER_COLLECTOR_RESOURCE_FULL: Hardware resources are insufficient to program collectors for %s

Severity: Error

Explanation: The switch is unable to program flowtracking policy due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of collectors in use on the switch.

FLOW_TRACKER_IFP_TCAM_RESOURCE_FULL: Hardware resources are insufficient to add IFP TCAM entry for flow group %s with monitor session %s.

Severity: Error

Explanation: The switch is unable to program the new TCAM entry for flow group %s due to the exhaustion of IFP resources.

Recommended Action: Reconfigure the system to free up IFP resources before configuring the packet filter on flow group %s.

HARDWARE_HOT_REMOVAL: Detected hardware hot removal in Strata switching ASIC %s

Severity: Info

Explanation: A hardware hot removal was detected in a Strata switching ASIC.

Recommended Action: No action is required – this message is for information only.

HITLESS_INIT_INTF_POSSIBLE_FLAP: Link may have flapped on %s while the forwarding agent was down.

Severity: Info

Explanation: Possible link flap was detected on an interface while the forwarding agent was down due to hitless restart.

Recommended Action: No action is required – this message is for information only.

HITLESS_RESTART_MMU_SCHED_CHANGED: MMU scheduler structure is changed during agent hitless restart, the StrataAgent will restart in normal mode, resulting in forwarding outage.

Severity: Info

Explanation: When StrataAgent restarts in hitless mode, MMU scheduler structure is checked to make sure software and hardware is in sync, if not, switch ASIC will be reconfigured, requiring the StrataAgent to restart in normal mode.

Recommended Action: This behavior is expected.

HITLESS_RESTART_TIMEOUT: Hitless restart of StrataAgent timed out. The agent will restart in normal mode, resulting in a forwarding outage.

Severity: Error

Explanation: StrataAgent failed to determine link statuses for all interfaces within the allotted time during hitless restart. The agent will restart in normal mode, resulting in a forwarding outage.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

I2ECLASSID_RESOURCE_FULL: Hardware resources are insufficient to allocate I2E class ID

Severity: Error

Explanation: The switch is unable to allocate I2E class ID due to insufficient hardware resources. Any feature requiring these might fail to operate as expected.

Recommended Action: Reconfigure the network to reduce the number of I2E class IDs used by resources like remote VTEPs in ethernet segments.

I2ECLASSID_RESOURCE_NORMAL: Hardware resources are available to allocate I2E class ID

Severity: Error

Explanation: The switch is able to allocate I2E class ID on account of hardware resources being available.

Recommended Action: No action is required – this message is for information only.

INGRESS_IP_BYTE_COUNTER_TCAM_FULL: Programming Ingress IP byte counters failed

Severity: Error

Explanation: The switch cannot enable IP byte counters due to insufficient ingress TCAM resources.

Recommended Action: Reconfigure other features that use ingress TCAMs to free up resources

IP_FRAGMENTATION_DISABLED: IP fragmentation is not supported for some traffic.

Severity: Warning

Explanation: Packets exceeding the configured MTU will get dropped if it is sampled by both Postcard telemetry and sFlow.

Recommended Action: Disable either sFlow or Postcard telemetry to make IP fragmentation work for all traffic.

IP_FRAGMENTATION_REENABLED: IP fragmentation will work for all traffic.

Severity: Warning

Explanation: Both Postcard and sFlow are not enabled together; IP fragmentation will work

Recommended Action: No action is required – this message is for information only.

IP_MULTICAST_ALPM_DISABLED: Hardware resources required for IPv4 multicast routing are not specified in the configuration.

Severity: Error

Explanation: The switch is unable to program multicast routes due to missing multicast hardware resource configuration.

Recommended Action: Please enable 'platform trident forwarding-table partition flexible ip-multicast <ip-multicast>' when ip multicast routing is configured.

IP_MULTICAST_ROUTING_DISABLED: Hardware resources required for IP multicast routing are not configured for the current system profile

Severity: Error

Explanation: Hardware resources required for IP multicast routing are not configured for the current system profile

Recommended Action: Configure hardware resources required for IP multicast routing under 'platform trident profile configuration <profile>' configuration mode

IP_MULTICAST_ROUTING_ENABLED: Hardware resources required for IP multicast routing are now configured for the current system profile

Severity: Error

Explanation: Hardware resources required for IP multicast routing are now configured for the current system profile

Recommended Action: No action is required – this message is for information only.

IP_V4_V6_COUNTER_FLEXCTR_FULL: Programming IP v4/v6 flex counter failed

Severity: Error

Explanation: The switch cannot enable IP v4/v6 counters due to insufficient ingress TCAMs flex counters resources.

Recommended Action: Reconfigure other features that use ingress TCAMs flex counters to free up resources

IP_V4_V6_COUNTER_TCAM_FULL: Programming IP v4/v6 tcam counter helper failed

Severity: Error

Explanation: The switch cannot enable IP v4/v6 counters due to insufficient ingress TCAM resources.

Recommended Action: Reconfigure other features that use ingress TCAMs to free up resources

L3_IIF_RESOURCE_FULL: Hardware resources are insufficient to add L3 ingress interface for %s

Severity: Error

Explanation: The switch is unable to program L3 ingress interface for the routed interface due to insufficient hardware resources. Traffic forwarding will not happen on this routed interface.

Recommended Action: Reconfigure the switch to reduce the number of routed interfaces.

L3_IIF_RESOURCE_NORMAL: Hardware resources are available to add L3 ingress interfaces.

Severity: Error

Explanation: The switch is able to program routed interfaces.

Recommended Action: No action is required – this message is for information only.

MACSEC_TCAM_RESOURCE_FULL: Hardware resources are insufficient to add %s rule due to %s

Severity: Error

Explanation: The switch is unable to program TCAM entries.

Recommended Action: Reconfigure the system to clear up hardware resources before flapping the MACsec profile to program TCAM entries.

MCAST_GROUP_RESOURCE_FULL: Hardware resources are insufficient to program multicast group.

Severity: Error

Explanation: The switch is unable to program multicast group due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of replication groups in the switch.

MCAST_GROUP_RESOURCE_NORMAL: Multicast groups are now available and programmed

Severity: Error

Explanation: The switch was able to program multicast group.

Recommended Action: No action is required – this message is for information only.

MCAST_PIM_BIDIR_GROUPS_RESOURCE_FULL: Hardware resources are insufficient to program PIM bidirectional groups resource

Severity: Error

Explanation: The switch is unable to program PIM bidirectional group classifiers due to insufficient hardware resources.

Recommended Action: Reconfigure your network to reduce the number of PIM bidirectional groups used in the switch.

MCAST_PIM_BIDIR_GROUPS_RESOURCE_NORMAL: PIM bidirectional groups are now available

Severity: Error

Explanation: The switch is able to program PIM bidirectional group classifiers due to availability of PIM bidirectional group resources.

Recommended Action: No action is required – this message is for information only.

MCAST_REPL_HEAD_RESOURCE_FULL: Hardware resources are insufficient to allocate port replication resource on module %d, pipe %d

Severity: Error

Explanation: The switch is unable to program multicast group due to insufficient port replication resources.

Recommended Action: Reconfigure your network to reduce the number of replication groups in the switch.

MCAST_REPL_HEAD_RESOURCE_NORMAL: Port replication resource are now available on module %d, pipe %d

Severity: Error

Explanation: The switch is able to program multicast group due to availability of port replication resources.

Recommended Action: No action is required – this message is for information only.

MCAST_REPL_LIST_RESOURCE_FULL: Hardware resources are insufficient to allocate replication list resource on module %d

Severity: Error

Explanation: The switch is unable to program multicast group due to insufficient replication list resources.

Recommended Action: Reconfigure your network to reduce the number of replication groups in the switch.

MCAST_REPL_LIST_RESOURCE_NORMAL: Replication list resource are now available on module %d

Severity: Error

Explanation: The switch is able to program multicast group due to availability of replication list resources.

Recommended Action: No action is required – this message is for information only.

MDNS_TCAM_RESOURCE_FULL: Hardware resources are insufficient to add MDNS %s rule.

Severity: Error

Explanation: The switch is unable to program TCAM entries.

Recommended Action: Reconfigure the system to clear up hardware resources before flapping the MDNS configurations to reprogram TCAM entries.

MDNS_TCAM_RESOURCE_NORMAL: Hardware resource recovery from %s TCAM exhaustion.

Severity: Error

Explanation: The switch has recovered from TCAM exhaustion. Entries for MDNS are able to be installed now.

Recommended Action: No action is required – this message is for information only.

MIRRORING_ACL_HW_RESOURCE_FULL: Hardware resources are insufficient to program all mirroring ACLs (%s, %s)

Severity: Error

Explanation: The switch is unable to program all mirroring ACLs due to insufficient hardware resources.

Recommended Action: Reconfigure your mirroring ACLs to reduce the size and/or complexity of the ACL.

MIRRORING_ACL_HW_RESOURCE_NORMAL: All mirroring ACLs are programmed in hardware (%s)

Severity: Error

Explanation: The switch was able to program all the mirroring ACLs in the hardware.

Recommended Action: No action is required – this message is for information only.

MIRRORING_GRE_TCAM_RESOURCE_FULL: Hardware resources are insufficient to program TCAM GRE rules for mirroring.

Severity: Warning

Explanation: The switch is unable to program TCAM GRE rules for mirroring due to insufficient hardware resources.

Recommended Action: Reconfigure the system to clear up hardware resources like removing egress ACLs. Reapply mirror configuration once hardware resources become available.

MIRRORING_RATELIMIT_HW_RESOURCE_FULL: Hardware resources are insufficient to program rate limit for mirroring session.

Severity: Warning

Explanation: The switch is unable to program rate limit for mirroring session due to insufficient hardware resources.

Recommended Action: Reconfigure the system to clear up hardware resources like removing egress/out ACLs. Reapply mirror rate limit configuration once hardware resources become available.

MIRRORING_TCAM_RESOURCE_FULL: Hardware resources are insufficient to program TCAM rules for mirroring.

Severity: Warning

Explanation: The switch is unable to program TCAM rules for mirroring due to insufficient hardware resources.

Recommended Action: Reconfigure the system to clear up hardware resources like removing egress ACLs. Reapply mirror configuration once hardware resources become available.

MIRRORING_UDF_ACL_HW_RESOURCE_FULL: Hardware resources are insufficient to program mirroring ACLs with UDF (%s, %s)

Severity: Error

Explanation: The switch is unable to program mirroring ACLs featuring UDF due to insufficient hardware resources available in the TCAM.

Recommended Action: Reconfigure and reapply your mirroring ACLs in the session to reduce the size and/or complexity of the ACLs featuring UDF.

MIRRORING_UDF_ACL_HW_RESOURCE_NORMAL: All mirroring ACLs featuring UDF are programmed in hardware (%s)

Severity: Error

Explanation: The switch was able to program all the mirroring ACLs featuring UDF in the hardware.

Recommended Action: No action is required – this message is for information only.

MIRRORING_UDF_ACL_INVALID_PAYLOAD_SPEC: An invalid payload specification with offset: %d pattern: %08x mask: %08x was found in the Mirroring ACL and has not been programmed.

Severity: Error

Explanation:

Recommended Action: Please remove the invalid payload configuration.

MIRROR_DESTINATION_LAG_RESOURCE_FULL: Insufficient hardware resource to add all members of port channel: %s as a mirror destination in session: %s .

Severity: Warning

Explanation:

Recommended Action: Supports only 8 members in the port channel.

MIRROR_EGRESS_CPU_DESTINATION_RECOVERED: The mirror session %s is enabled, because store-and-forward forwarding has been enabled

Severity: Warning

Explanation: This system supports mirroring packets from egress sources to the CPU only in store-and-forward forwarding mode.

Recommended Action: No action is required – this message is for information only.

MIRROR_EGRESS_CPU_DESTINATION_UNSUPPORTED: The mirror session %s is disabled while cut-through forwarding is enabled.

Severity: Warning

Explanation: The forwarding chip does not support cut-through forwarding while mirroring packets from egress mirroring sources to the CPU.

Recommended Action: To resolve the issue switch to store-and-forward forwarding mode where this mirroring configuration can be supported.

MIRROR_GRE_IN_CUT_THROUGH: Mirroring session %s configured with a GRE tunnel destination is incompatible with the current switch cut-through forwarding mode.

Severity: Warning

Explanation: Mirror sessions that have GRE tunnel destinations may experience unexpected behavior while the system is in cut-through mode.

Recommended Action: To resolve the issue switch to store-and-forward forwarding mode where this mirroring configuration can be supported.

MIRROR_GRE_IN_CUT_THROUGH_CHANGE: Mirroring sessions configured with GRE tunnel destinations are incompatible with the current switch cut-through forwarding mode.

Severity: Warning

Explanation: Mirror sessions that have GRE tunnel destinations may experience unexpected behavior while the system is in cut-through mode.

Recommended Action: To resolve the issue switch to store-and-forward forwarding mode where this mirroring configuration can be supported.

MIRROR_INVALID_MTP_DISABLE: The mirror session %s is disabled in cut-through mode.

Severity: Warning

Explanation: This system does not support mirror sessions that have both ingress mirror sources and egress mirror sources to the same mirror destination port while in cut-through forwarding mode.

Recommended Action: To resolve the issue switch to store-and-forward forwarding mode where this mirroring configuration can be supported.

MIRROR_PREVIOUSLY_INVALID_MTP_ENABLE: The mirror session %s is now enabled.

Severity: Warning

Explanation: This system supports mirror sessions that have both ingress mirror sources and egress mirror sources to the same mirror destination port only when in store-and-forward forwarding mode.

Recommended Action: No action is required – this message is for information only.

MIRROR_SESSION_RESOURCES_FULL: Mirroring hardware resources are insufficient to program the mirror session %s.

Severity: Error

Explanation: The switch is unable to program the mirroring session due to the unavailability of hardware resources. The maximum mirror sessions limit has been exceeded. As a result this mirroring session is not operational.

Recommended Action: To solve this issue, remove a mirroring session or unconfigure a feature that is using a mirror session.

MMU_MEMORY_EXHAUSTED: Unable to allocate headroom memory

Severity: Error

Explanation: The amount of memory needed to allocate headroom for flow control exceeds the memory available on the device.

Recommended Action: No action is required – this message is for information only.

MMU_MIRROR_ON_DROP_RESERVED_INVALID: Request to reserve %d bytes of memory for packet-buffer mirror-on-drop on %s cannot be satisfied.

Severity: Error

Explanation: The number of bytes required for this feature exceeds available resources.

Recommended Action: Reduce the amount of memory reserved for this feature by configuring 'platform trident mmu mirror-on-drop limit'

MMU_QUEUE_MULTICAST_RESERVED_INVALID: Request to reserve %d multicast queueing resources cannot be satisfied in MMU %d (max %d)

Severity: Info

Explanation: The number of requested multicast queueing resources exceeds the number of available multicast queueing resources. Reduce the number of reserved cells using the 'platform trident mmu queue profile' or 'platform trident mmu queue cpu-profile' commands.

Recommended Action: No action is required – this message is for information only.

MMU_QUEUE_RESERVED_INVALID: Request to reserve %d bytes of memory for the MMU %s cannot be satisfied.

Severity: Info

Explanation: The number of bytes requested exceeds available memory.

Recommended Action: Reduce the amount of memory that should be reserved by reconfiguring the trident mmu queue.

MODULE_POWEROFF: Card %s powering off. Cause: %s

Severity: Info

Explanation: A card may be intentionally powered off due to an error condition being met.

Recommended Action: Remove and re-insert the impacted linecard or fabric card.

MODULE_RESET: Switch %s restarting. Cause: %s

Severity: Info

Explanation: A switch may restart due to configuration change or software defect. Restarting one switch may cause other switches to restart. Please see cause for more information.

Recommended Action: No action is required – this message is for information only.

MOD_ACL_TCAM_FAILURE: StrataTcam agent unable to install drop catch entry

Severity: Error

Explanation: The switch is unable to install the drop catch entry due to the TCAM manager failure.

Recommended Action: Try disabling and enabling Mirror On Drop

MOD_ACL_TCAM_TIMEOUT: StrataTcam agent unable to install drop catch entry

Severity: Error

Explanation: The switch is unable to install the drop catch entry because the request to the TCAM manager timed out.

Recommended Action: Try disabling and enabling Mirror On Drop

MPLS_ENTRY_RESOURCE_FULL: Hardware resources are insufficient to add an MPLS route

Severity: Error

Explanation: The switch is unable to program the MPLS route for this action due to insufficient hardware resources. Traffic forwarding will not happen via this MPLS route.

Recommended Action: Reconfigure your network to reduce the number of MPLS routes in the switch.

MPLS_MAC_DA_PROFILE_TABLE_FULL: Hardware resources are insufficient to add an MPLS adjacency for %s

Severity: Error

Explanation: The switch is unable to create a destination MAC profile for the MPLS entry due to insufficient hardware resources. Traffic forwarding will not happen to this MAC address.

Recommended Action: Reconfigure your network to reduce the number of MPLS entries in the switch, or use less interfaces for egress MPLS traffic.

MPLS_NEXTHOP_RESOURCE_FULL: Hardware resources are insufficient to add an MPLS adjacency (%d)

Severity: Error

Explanation: The switch is unable to program the nexthop for the MPLS entry due to insufficient hardware resources. Traffic forwarding will not happen to this MPLS nexthop/destination.

Recommended Action: Reconfigure your network to reduce the number of MPLS nexthops in the switch.

MPLS_RESERVED_ENTRY_PROGRAMMING_FAILURE: Programming failure of MPLS table for required resources (label %d)

Severity: Error

Explanation: The switch is unable to program a reserved entry in a hardware table that is necessary for MPLS to function properly. Traffic forwarding of MPLS packets and other MPLS actions might not work.

Recommended Action: Try power cycling the switch. This problem should not occur under normal operation. Likely the hardware is stuck in a bad state.

MPLS_VC_AND_SWAP_TABLE_FULL: Hardware resources are insufficient to add an MPLS %s label

Severity: Error

Explanation: The switch is unable to program the nexthop for the MPLS entry due to insufficient hardware resources. The MPLS action will not take effect on this label.

Recommended Action: Reconfigure your network to reduce the number of MPLS swap/push labels in the switch.

NATIVE_VLAN_VFP_RESOURCE_FULL: Hardware resources are insufficient to add VFP rule for %s

Severity: Error

Explanation: The switch is unable to program VFP entry for handling of VXLAN native VLAN on the trunk port. All traffic on this trunk port will be bridged only in the native VLAN until VFP resources are available.

Recommended Action: Reconfigure the system to clear up VFP hardware resources like removing IP ACLs. Reapply native VLAN configuration on the affected port once hardware resourced become available.

NATIVE_VLAN_VFP_RESOURCE_RECOVERY: Hardware resource recovery adding VFP rules for VXLAN VLAN as native VLAN.

Severity: Error

Explanation: The switch has recovered from VFP exhaustion. Entries used for handling ports configured with native VLAN as a VXLAN VLAN are able to be installed now.

Recommended Action: No action is required – this message is for information only.

NAT_TCAM_RESOURCE_FULL: Hardware resources are insufficient to add NAT rule with key <%s>

Severity: Error

Explanation: The switch is unable to program TCAM entries.

Recommended Action: Reconfigure the system to clear up hardware resources before configuring this NAT rule

NAT_TCAM_RESOURCE_NORMAL: Hardware resources are available to add NAT rules.

Severity: Info

Explanation: The switch is able to add NAT rules due to new available TCAM resources

Recommended Action: No action is required – this message is for information only.

NEW_PRIMARY: Setting %s as the primary redundant switchcard.

Severity: Info

Explanation: The primary redundant switch in the system is responsible for all of the switching decisions.

Recommended Action: No action is required – this message is for information only.

OUT_OF_LOGICAL_PORTS: Out of logical ports in pool %s, making interface %s inactive.

Severity: Warning

Explanation: The switch ran out of hardware port resources on packet processing pipeline.

Recommended Action: To make the interface active, look at 'show platform trident interface map full', and make other interfaces in the same forwarding pipeline inactive.

PAUSE_PG_HW_RESOURCE_FULL: Unable to configure flowcontrol send on interface %s due to insufficient hardware resources.

Severity: Error

Explanation: The number of unique no-drop priority configurations exceeds that available on the device. The flowcontrol send configuration for this interface will be ignored.

Recommended Action: Reduce the number of unique interface flow control configurations.

PFC_PG_HW_RESOURCE_FULL: Unable to configure priority flow control on interface %s due to insufficient hardware resources.

Severity: Error

Explanation: The number of unique no-drop priority configurations exceeds those available to the device. The priority flow control configuration for this interface will be not be updated.

Recommended Action: Reduce the number of unique interface flow control configurations.

PORTGROUP_MODE_CHANGE: Change in port-group %s configuration, %s has been enabled, the StrataAgent will restart

Severity: Info

Explanation: When a QSFP+ port or SFP+ port is enabled or disabled the switch ASIC must be reconfigured, requiring the StrataAgent to restart.

Recommended Action: No action is required – this message is for information only.

POSTCARD_TELEMETRY_HW_PROGRAMMING_ERROR: Timeout/Unknown failure happened while programming Postcard Telemetry rules in hardware for policy %s

Severity: Error

Explanation: The switch is unable to program all Postcard Telemetry policy rules due to timeout/unknown failure during hardware programming.

Recommended Action: Try disabling and enabling Postcard Telemetry or check for the FixedSystem agent to be running or reconfigure Postcard Telemetry policies to reduce the size and then reapply the Postcard Telemetry configuration.

POSTCARD_TELEMETRY_HW_RESOURCE_FULL: Hardware resources are insufficient to program all Postcard Telemetry rules for policy %s

Severity: Error

Explanation: The switch is unable to program all Postcard Telemetry policy rules due to insufficient hardware resources available in the TCAM.

Recommended Action: Reconfigure Postcard Telemetry policies to reduce the size and/or reconfigure other features using TCAM hardware resources to reduce their usage and then reapply the Postcard Telemetry configuration.

POSTCARD_TELEMETRY_PROGRAMMING_NORMAL: All Postcard Telemetry rules programmed successfully in hardware for policy %s

Severity: Error

Explanation: The switch was able to program all Postcard Telemetry policy rules in the hardware.

Recommended Action: No action is required – this message is for information only.

PROFILE_MODE_CHANGE: Forwarding scale for profile %s changed. Expect traffic loss

Severity: Info

Explanation: The forwarding table scale for profile %s was changed. Traffic will be disrupted while the configuration is applied

Recommended Action: No action is required – this message is for information only.

PROFILE_MODE_UNSUPPORTED: Requested forwarding scales for profile %s are not supported

Severity: Warning

Explanation: The switch cannot apply the forwarding table scale specified in 'platform trident profile configuration %s'.

Recommended Action: Reconfigure 'platform trident profile configuration %s', to a supported forwarding scale as listed by 'show forwarding table capabilities'.

PROFILE_VXLAN_UNSUPPORTED: Hardware resources required for VXLAN entries are not configured for the current system profile.

Severity: Error

Explanation: The switch is unable to program VXLAN entries due to missing hardware resource configuration.

Recommended Action: Please remove any VXLAN configuration or enable VXLAN support for the current system profile.

QOS_OUTER_DSCP_TO_COS_ERROR: Hardware resources are insufficient to program UDF to rewrite egress COS derived from ingress outer DSCP.

Severity: Error

Explanation: The switch is unable to program UDF used for rewriting egress COS derived from ingress outer DSCP due to insufficient UDF hardware resources. As a result, egress COS will be derived from ingress inner DSCP.

Recommended Action: Reconfigure other ACLs or features that use UDF to free up UDF hardware resources.

QOS_PHONE_HW_RESOURCE_FULL: TCAM resources are insufficient to program phone QoS trust mode

Severity: Error

Explanation: The switch is unable to program phone QoS configuration due to insufficient TCAM resources.

Recommended Action: Reconfigure other features that use TCAMs to free up some resources for QoS.

QOS_PHONE_HW_RESOURCE_NORMAL: TCAM resources programmed for phone QoS trust mode

Severity: Error

Explanation: The switch was able to program phone QoS configuration in the TCAM.

Recommended Action: No action is required – this message is for information only.

RECOMP_NOT_SUPPORTED_WITH_VXLAN_NEXTHOP: Resilient ECMP configuration is not supported on routes with VXLAN remote nexthop l2intf:%s, l3intf:%s

Severity: Warning

Explanation: Resilient ECMP configuration is not supported on routes with VXLAN remote nexthops

Recommended Action: Please disable RECOMP configuration on routes with VXLAN remote nexthops

RESERVED_HOST_TABLE_EXCEEDED: The reserved value chosen for the host entries exceeds the current number of available entries. Reserving only %d entries.

Severity: Info

Explanation: The number of entries reserved in the host table cannot exceed the current table capacity. The actual number of entries reserved is lower than the configured one.

Recommended Action: No action is required – this message is for information only.

RXDMASTUCKERROR: RX Packet DMA Stuck Error occurred in StrataAgent chip %s

Severity: Error

Explanation: A fatal PCIE Error affecting cpu packet DMA occurred in a Strata switching ASIC. Strata agent restarted in order to recover from this error.

Recommended Action: No action is required – this message is for information only.

SCHEDULER_MODE_CHANGE: Switch scheduler configuration changed to %s, the forwarding agent will restart.

Severity: Info

Explanation: When the switch scheduler configuration is changed the switch ASIC must be reconfigured, requiring the forwarding agent to restart.

Recommended Action: No action is required – this message is for information only.

SUBINTERFACE_NEXTHOP_NOT_SUPPORTED_WITH_IPV6_VXLAN: IPv6 VXLAN encapsulation is not supported on 802.1q subinterfaces. Interface %s VTEP %s

Severity: Error

Explanation: The switch does not support IPv6 VXLAN encapsulation of packets being transmitted out of 802.1q subinterfaces.

Recommended Action: Reconfigure the switch to use regular L3 interface as underlay/core interface for a IPv6 VXLAN tunnel.

SUBINTERFACE_NEXTHOP_NOT_SUPPORTED_WITH_VXLAN: VXLAN encapsulation of packets on 802.1q subinterfaces is not supported. Interface %s VTEP %s

Severity: Error

Explanation: The switch does not support VXLAN encapsulation of packets being transmitted out of 802.1q subinterfaces.

Recommended Action: Reconfigure the switch to avoid transmitting VXLAN encapsulated packets on 802.1q subinterfaces.

SYSTEM_PROFILE_ACTION_REQD: System profile %s change is incomplete. Reload required for change: %s

Severity: Info

Explanation: This system profile change cannot be applied on a running system and requires saving running-config to startup-config and reload(run write; run reload).

Recommended Action: Save running configuration and reload the system to complete the requested profile change

SYSTEM_PROFILE_CHANGED: System profile %s changed. Change(s): %s

Severity: Info

Explanation: System profile has changed.

Recommended Action: No action is required – this message is for information only.

SYSTEM_RESET: All switches restarting. Cause: %s

Severity: Info

Explanation: Some configuration changes require all switches to restart.

Recommended Action: No action is required – this message is for information only.

TABLE_MODE_CHANGE: Operating mode for %s table changed to %d. Restarting forwarding agents

Severity: Info

Explanation: Table operating mode changed. Restarting forwarding agents

Recommended Action: No action is required – this message is for information only.

TABLE_MODE_CHANGE_FLEX: Operating mode for %s table changed to flexible. Restarting forwarding agents

Severity: Info

Explanation: Table operating mode changed. Restarting forwarding agents

Recommended Action: No action is required – this message is for information only.

TABLE_MODE_CONFLICT_URPF: uRPF is enabled in hardware. Operating mode for %s table cannot be changed to %d.

Severity: Info

Explanation: uRPF can only be configured when the table is in routing mode 2 or 4, and forwarding mode not 4. No other modes are supported with uRPF configuration.

Recommended Action: No action is required – this message is for information only.

TABLE_MODE_NO_CONFLICT_URPF: uRPF is disabled in hardware. Operating mode for %s table changed to configured mode %d.

Severity: Info

Explanation: Reverting the operating mode of routing tcam/forwarding table to configured value. uRPF disabled in hardware and no longer causes any conflicts with the configured value

Recommended Action: No action is required – this message is for information only.

TCAM_FLEX_COUNTER_HW_RESOURCE_FULL: Flex counter resource exhausted for stage %s pipe %s

Severity: Error

Explanation: The switch is unable to allocate counters for the feature due to insufficient hardware resources. Feature creation will be attempted without counters.

Recommended Action: No action is required – this message is for information only.

TCAM_UDF_HW_RESOURCE_FULL: Hardware resources insufficient to program UDF

Severity: Error

Explanation: The switch is unable to program UDF due to insufficient hardware resources.

Recommended Action: Reconfigure other ACLs or features that use UDF to free up UDF hardware resources.

TCAM_UDF_HW_RESOURCE_NORMAL: All UDFs are programmed in hardware

Severity: Error

Explanation: The switch was able to program all the UDFs in the hardware.

Recommended Action: No action is required – this message is for information only.

TRANSCEIVER_MODE_CHANGE: Change in interface %s configuration from %s to %s, the StrataAgent will restart.

Severity: Info

Explanation: When a multi-lane speed change is initiated on a port, the switch ASIC must be reconfigured, requiring the StrataAgent to restart.

Recommended Action: This behavior is expected.

TXDMASTUCKERROR: TX Packet DMA Stuck Error occurred in StrataAgent chip %s

Severity: Error

Explanation: A fatal PCIE Error affecting cpu packet DMA occurred in a Strata switching ASIC. Strata agent restarted in order to recover from this error.

Recommended Action: No action is required – this message is for information only.

UDF_HW_RESOURCE_FULL: Hardware resources insufficient to program UDF

Severity: Error

Explanation: The switch is unable to program UDF due to insufficient hardware resources.

Recommended Action: Reconfigure other ACLs or features that use UDF to free up UDF hardware resources.

UDF_HW_RESOURCE_NORMAL: All UDFs are programmed in hardware

Severity: Error

Explanation: The switch was able to program all the UDFs in the hardware.

Recommended Action: No action is required – this message is for information only.

UNEXPECTED_L2MOD_FIFO_MAC_EVENT: An unexpected l2mod fifo mac event is received. msg = %s

Severity: Debug

Explanation: An unexpected l2mod fifo mac event is received.

Recommended Action: No action is required – this message is for information only.

UNEXPECTED_RESTART: Unexpected restart of Strata agent %s occurred

Severity: Error

Explanation: Unexpected restart of the Strata agent occurred.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

URPF_CONFLICT_TABLE_MODE: uRPF cannot be configured in hardware. %s table mode %d is not supported with uRPF configuration.

Severity: Info

Explanation: uRPF can only be configured when the table is in routing mode 2 or 4. No other modes are supported with uRPF configuration.

Recommended Action: No action is required – this message is for information only.

URPF_EXCEPTION_HW_LIST_PROGRAMMED: Sufficient TCAM resources for programming uRPF exception list (%s)

Severity: Error

Explanation: The switch is able to program the exception list needed for uRPF in hardware.

Recommended Action: No action is required – this message is for information only.

URPF_EXCEPTION_HW_RESOURCE_FULL: Insufficient TCAM resources for programming uRPF exception list (%s)

Severity: Error

Explanation: The switch is unable to program exception list entries needed for uRPF due to insufficient TCAM resources. As a result, uRPF will be enabled without the exception list in hardware.

Recommended Action: Reconfigure your lists to free up enough resources for exception entries.

URPF_HW_RESOURCE_FULL: Insufficient TCAM resources for programming uRPF ACL entries.

Severity: Error

Explanation: The switch is unable to program ACL entries needed for uRPF due to insufficient TCAM resources. As a result, uRPF will not be enabled in hardware.

Recommended Action: Reconfigure your ACLs to free up enough resources for uRPF.

VFI_MCAST_RESOURCE_FULL: Hardware resources are insufficient to add vxlan multicast group for vlan=%d, type=%s

Severity: Error

Explanation: The switch is unable to program multicast group for vxlan due to insufficient hardware resources. Flood traffic may not be sent to all the ports in vlan.

Recommended Action: Reconfigure your network to reduce the number of multicast groups in the switch.

VFI_MCAST_RESOURCE_NORMAL: Vxlan multicast group now programmed for vlan=%d, type=%s

Severity: Error

Explanation: The switch is now handling broadcast, multicast, unknown traffic normally.

Recommended Action:

VFI_NEXTHOP_RESOURCE_FULL: Hardware resources are insufficient to add vxlan port %s for vlan %d

Severity: Error

Explanation: The switch is unable to program nexthop for the vxlan port due to insufficient hardware resources. Traffic forwarding will not happen on this port.

Recommended Action: Reconfigure your network to reduce the number of nexthop entries in the switch.

VFI_RESOURCE_FULL: Hardware resources are insufficient to add a virtual forwarding instance for %s

Severity: Error

Explanation: The switch is unable to program a virtual forwarding instance for the VLAN due to insufficient hardware resources. Traffic forwarding will not happen on this VLAN.

Recommended Action: Reconfigure the switch to reduce the number of VLANs or routed interfaces.

VFI_RESOURCE_NORMAL: Hardware resources are available to add virtual forwarding instances.

Severity: Error

Explanation: The switch is able to program VLANs.

Recommended Action: No action is required – this message is for information only.

VIRTUALPORT_RESOURCE_FULL: Hardware resources are insufficient to add virtual port for %s

Severity: Error

Explanation: The switch is unable to program virtual port (remote VTEP or edge vlan-port pair) for the vxlan end point due to insufficient hardware resources. Traffic forwarding will not happen on this virtual port.

Recommended Action: Reconfigure the network to reduce the number of entries in the hardware table like remote VTEPs or edge vlan-port pairs.

VIRTUALPORT_RESOURCE_NORMAL: Hardware resources are available to add virtual port for %s

Severity: Error

Explanation:

Recommended Action:

VLANBITMAPPROFILE_RESOURCE_FULL: Hardware resources are insufficient to add VLAN %d

Severity: Error

Explanation: The specified entry could not be programmed due to insufficient hardware resources. Traffic forwarding will not happen on the specified entry.

Recommended Action: Reconfigure the network to reduce the number of VLAN entries in the hardware and/or interfaces enabled on the VLAN.

VLANXLATE_RESOURCE_FULL: Hardware resources are insufficient to add %s

Severity: Error

Explanation: The specified entry could not be programmed due to insufficient hardware resources. Traffic forwarding will not happen on the specified entry.

Recommended Action: Reconfigure the network to reduce the number of entries in the hardware table like vlan mappings, edge vlan-port pairs or vlan-vni mappings.

VLAN_ACL_SHARING_MODE_CHANGE: Change in resource sharing behavior for ACLs applied on VLAN interfaces

Severity: Info

Explanation: The forwarding agent will restart to share/unshare ACL hardware resources attached across multiple VLAN interfaces

Recommended Action: No action is required – this message is for information only.

VLAN_ROUTING_TCAM_RESOURCE_FULL: Hardware resources are insufficient to enable routing on vlan %d

Severity: Error

Explanation: The switch is not able to enable vlan routing due to insufficient hardware resources.

Recommended Action: Reconfigure your network to add continuous range of routing vlans or reduce the vln scale.

VLAN_ROUTING_TCAM_RESOURCE_NORMAL: Hardware resources are available to add routing vlans

Severity: Error

Explanation: The switch is able to program routing vlans.

Recommended Action: No action is required – this message is for information only.

VP_VLAN_MEMBERSHIP_RESOURCE_FULL: Hardware %s resources are insufficient to add ports to VLANs

Severity: Error

Explanation: The switch is unable to program ports to VLANs due to insufficient hardware resources. Packets to or from unprogrammed port and VLAN pairs will be dropped.

Recommended Action: Reduce the number of VLAN and port combinations to less than 16,000. If that does not work ,reconfigure your network with different VLAN and port combinations to avoid hardware hash table collisions.

VP_VLAN_MEMBERSHIP_RESOURCE_NORMAL: All %s active port and VLAN pairs are programmed in the switch hardware

Severity: Error

Explanation: The switch was able to program all active port and VLAN pairs to the switch hardware.

Recommended Action: No action is required – this message is for information only.

VRRP_ROUTING_RESOURCE_FULL: Hardware resources are insufficient to enable routing for VRRP group %d

Severity: Error

Explanation: The switch is not able to enable VRRP routing due to insufficient hardware resources.

Recommended Action: Reconfigure your network by reducing the VRRP group.

VRRP_ROUTING_RESOURCE_NORMAL: Hardware resources are sufficient to enable routing for all VRRP groups.

Severity: Error

Explanation: The switch was able to program all VRRP groups in the hardware.

Recommended Action: No action is required – this message is for information only.

VXLAN_HWHER_NEXTHOP_RESOURCE_FULL: Hardware resources are insufficient to head end replicate(HER) to vtep(%s)

Severity: Info

Explanation: A nexthop is required for flooding traffic to each remote vtep

Recommended Action: Reconfigure your network to reduce the number of nexthop entries in the switch.

VXLAN_MCAST_RESOURCE_FULL: Hardware resources are insufficient to add vxlan multicast group

Severity: Error

Explanation: The switch is unable to program multicast group for vxlan due to insufficient hardware resources. Flood traffic may not be sent to all the ports in vlan.

Recommended Action: Reconfigure your network to reduce the number of multicast groups in the switch.

VXLAN_NEXTHOP_RESOURCE_FULL: Hardware resources are insufficient to add vxlan port %s for vlan %d

Severity: Error

Explanation: The switch is unable to program nexthop for the vxlan port due to insufficient hardware resources. Traffic forwarding will not happen on this port.

Recommended Action: Reconfigure your network to reduce the number of nexthop entries in the switch.

VXLAN_PORT_TO_NEXTHOP_OVERFLOW: Vxlan module (%d), port (%d), Interface (%s) : Port To Next hop Table overflow %s

Severity: Info

Explanation: Vxlan tunnels resolved through same physical port do not share first hop router. Some of the tunnels may not be reachable.

Recommended Action: Reconfigure your network so that tunnels resolved through same physical port share the same first hop router. 'show platform trident vxlan port-to-next-hop overflow' and 'show platform trident vxlan port-to-next-hop ' can be used to monitor the port-to-next-hop tables that are overflowing.

VXLAN_PORT_TO_NEXTHOP_OVERFLOW_RESOLVED: Vxlan module (%d), port (%d), Interface (%s)
: Port To Next hop Table overflow Resolved

Severity: Info

Explanation: Vxlan tunnels resolved through this physical port share same nexthop router. Accordingly, all tunnels using this nexthop are now reachable.

Recommended Action: 'show platform trident vxlan port-to-next-hop overflow' and 'show platform trident vxlan port-to-next-hop ' can be used to monitor the port-to-next-hop tables that are overflowing.

VXLAN_RECIRC_CHANNEL_CONFIGURED_RECOVERY: Recirc-channel has now been configured for use with Vxlan routing

Severity: Error

Explanation: Recovered from error state for flows involving routing into and/or from Vxlan tunnels

Recommended Action: No action is required – this message is for information only.

VXLAN_RECIRC_CHANNEL_NOT_CONFIGURED: Recirc-channel has not been configured for use with Vxlan routing

Severity: Error

Explanation: A Recirc-channel interface with vxlan features is required for proper functioning of flows involving routing into and/or from Vxlan tunnels

Recommended Action: Configure a Recirc-channel, and enable vxlan features on it

VXLAN_ROUTING_RESOURCE_FULL: Unable to program router MAC address %s in VLAN %d due to hardware resource exhaustion. Vxlan routing may not work as expected in this VLAN.

Severity: Warning

Explanation: The specified MAC address could not be programmed into the switching ASIC due to hardware resource exhaustion. This MAC address is pointing to an internal recirculation port and is used for Vxlan routing. Hence, Vxlan routing may not work as expected while the system is in this state.

Recommended Action: No action is required – this message is for information only.

VXLAN_ROUTING_RESOURCE_NORMAL: Router MAC address %s in VLAN %d was successfully programmed in hardware.

Severity: Warning

Explanation: The specified MAC address was successfully programmed into the switching ASIC. Normal vxlan routing should resume in this VLAN.

Recommended Action: No action is required – this message is for information only.

VXLAN_TCAM_RESOURCE_FULL: Hardware resources are insufficient to add VXLAN %s rule.

Severity: Error

Explanation: The switch is unable to program TCAM entries.

Recommended Action: Reconfigure the system to clear up hardware resources before flapping the VXLAN interface to reprogram TCAM entries.

VXLAN_TCAM_RESOURCE_NORMAL: Hardware resource recovery from %s TCAM exhaustion.

Severity: Error

Explanation: The switch has recovered from TCAM exhaustion. Entries for VXLAN are able to be installed now.

Recommended Action: No action is required – this message is for information only.

VXLAN_VLAN_VFP_RESOURCE_FULL: Hardware resources are insufficient to add VFP rule for VXLAN VLAN trunk interface.

Severity: Error

Explanation: The switch is unable to program VFP entry for handling of VXLAN VLAN on the trunk port. All traffic on this trunk port for the specified VLAN will be dropped.

Recommended Action: Reconfigure the system to clear up VFP hardware resources like removing IP ACLs. Reapply VLAN configuration on the affected port once hardware resources become available.

VXLAN_VLAN_VFP_RESOURCE_NORMAL: Hardware resource recovery adding VFP rule for VXLAN VLAN trunk interface.

Severity: Error

Explanation: The switch has recovered from VFP exhaustion. Entries used for handling ports configured as switchport trunk in a VXLAN VLAN are able to be installed now.

Recommended Action: No action is required – this message is for information only.

WATCHDOG_POWERCYCLE: Power cycling %s due to watchdog timeout.

Severity: Error

Explanation: A card power cycle is used to attempt recovery of a non-responsive switch.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

WEBAUTH_TCAM_RESOURCE_FULL: Hardware resources are insufficient to add Web Authentication %s rule.

Severity: Error

Explanation: The switch is unable to program TCAM entries.

Recommended Action: Reconfigure the system to clear up hardware resources before enabling Web Auth to reprogram TCAM entries.

2.160 STRATADOT1X Messages

CPU_QUEUE_PROGRAMMING_FAILED: Hardware resources are insufficient to allocate a new CPU queue for the dot1x dropped counter feature.

Severity: Warning

Explanation: The switch is unable to allocate a CPU queue due to insufficient hardware resources.

Recommended Action: Free CPU queue resources.

CPU_QUEUE_PROGRAMMING_SUCCEEDED: Hardware resources are sufficient to program the CPU queue for the dot1x dropped counter feature.

Severity: Warning

Explanation: The switch is able to program a CPU queue for the dot1x dropped counter feature.

Recommended Action: No action is required – this message is for information only.

2.161 STRATANAT Messages

ACL_TCAM_FAILURE: StrataTcam agent unable to add static NAT ACL %s

Severity: Error

Explanation: The switch is unable to program the NAT ACL filters due to the TCAM manager failure.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

ACL_TCAM_TIMEOUT: StrataTcam agent unable to add static NAT ACL %s

Severity: Error

Explanation: The switch is unable to program the NAT ACL filters because the request to the TCAM manager timed out.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

ACL_VFP_RESOURCE_FULL: Hardware resources are insufficient to add static NAT ACL %s

Severity: Error

Explanation: The switch is unable to program the static NAT ACL filters due to exhaustion of VFP resources.

Recommended Action: Reconfigure the system to clear up VFP resources before configuring this NAT rule. Try reducing the number of filters in this ACL, or reducing the usage of VFP by other features, such as security ACL, PDP, DirectFlow, OpenFlow, or VXLAN

ACL_VFP_RESOURCE_NORMAL: Hardware resources are available to add static NAT ACL.

Severity: Info

Explanation: The switch is able to add static NAT ACL due to new available VFP resources.

Recommended Action: No action is required – this message is for information only.

EGRESS_VLAN_TRANSLATION_COLLISION: Unable to program NAT rule <%s>. The rule is colliding with existing rule <%s>.

Severity: Error

Explanation: The switch was unable to program the NAT rule due to its vlan-xlate-inner entry colliding with an existing NAT rule. The vlan-xlate-inner resources may be full.

Recommended Action: Remove the new colliding NAT rule.

EM_RESOURCE_FULL: Hardware exact match resources are insufficient to add NAT rule with key <%s>

Severity: Error

Explanation: The switch is unable to program all exact match entries due to insufficient hardware resources.

Recommended Action: Reconfigure the system to clear up hardware resources before configuring this NAT rule

EM_UFT_NOT_CONFIGURED: Forwarding table doesn't have space allocated for exact match entries to program dynamic NAT rules

Severity: Error

Explanation: The switch is unable to program dynamic NAT rules because the forwarding table has no allocated space for exact match entries

Recommended Action: Configure the system to allocate space in the forwarding table for exact match entries using 'platform trident forwarding-table partition exact-match'

MCAST_TRANSLATION_TYPE: Unable to program multicast NAT rule with translation type %s.

Severity: Error

Explanation: The switch was unable to program the multicast NAT rule due to the translation type not being selected.

Recommended Action: Reconfigure the multicast NAT translation types to support the translation type for this rule using 'platform trident nat translation multicast'.

REPROGRAMMING: %s. Reprogramming NAT connections. This may disrupt traffic

Severity: Info

Explanation: This change requires existing NAT rules to be reprogrammed immediately. Traffic may be temporarily disrupted

Recommended Action: No action is required – this message is for information only.

SERVER_RESOURCE_FULL: Insufficient resources for NAT rule with key <%s>

Severity: Warning

Explanation: The switch is unable to program all NAT rules due to insufficient resources.

Recommended Action: Reconfigure the system to clear up resources before configuring this NAT rule

SERVER_RESOURCE_NORMAL: Resources are available for programming NAT rules

Severity: Warning

Explanation: The switch is able to program more NAT rules

Recommended Action: No action is required – this message is for information only.

TCAM_FAILURE: StrataTcam agent unable to install NAT entry %s %s

Severity: Error

Explanation: The switch is unable to program the NAT entry due to the TCAM manager failure. Try removing and re-programming the corresponding NAT configuration

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TRAP_TCAM_RESOURCE_FULL: Hardware resources are insufficient to add NAT trap filter %s

Severity: Error

Explanation: The switch is unable to program the NAT trap filter due to the exhaustion of IFP resources.

Recommended Action: Reconfigure the system to free up IFP resources before configuring NAT.

TRAP_TCAM_RESOURCE_NORMAL: Hardware resources are available to add NAT trap filters.

Severity: Info

Explanation: The switch is able to add NAT trap filters due to new available IFP resources.

Recommended Action: No action is required – this message is for information only.

2.162 STRATAQOS Messages

COPP_CPUQ_RESOURCE_FULL: Hardware resources are insufficient to allocate a new CPU queue with the provided configuration.

Severity: Warning

Explanation: The switch is unable to allocate a CPU queue due to insufficient hardware resources. Free CPU queue resources and reapply the configuration.

Recommended Action: No action is required – this message is for information only.

COPP_CPUQ_RESOURCE_NORMAL: Hardware resources are sufficient for CPU queue programming.

Severity: Warning

Explanation: The switch was able to program all of the CPU queues in the hardware.

Recommended Action: No action is required – this message is for information only.

ECN_EFP_TCAM_RESOURCE_FULL: Hardware resources are insufficient to add EFP TCAM entry.

Severity: Error

Explanation: The switch is unable to program the new TCAM entry.

Recommended Action: Reconfigure the system to free up EFP resources before configuring.

2.163 STRATASC Messages

TCAM_FAILURE: StrataTcam agent unable to add Storm Control %s

Severity: Error

Explanation: The switch is unable to program the Storm Control due to the TCAM manager failure.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

TCAM_RESOURCE_FULL: Unable to find TCAM entry to set Storm Control %s

Severity: Warning

Explanation: The stormController setting can't be programmed into the switching ASIC due to exhaustion of TCAM entries. Rate can't be controlled for this port for now

Recommended Action: Reduce the number of TCAM entries that are programmed into the switching ASIC. One or more of the following steps might be helpful: 1. Reduce the number of ACLs. 2. Use fewer StormController settings.

TCAM_TIMEOUT: StrataTcam agent unable to add Storm Control %s

Severity: Error

Explanation: The switch is unable to program the Storm Control because the request to the TCAM manager timed out.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.164 STUN Messages

HW_TRAP_RULE_PROGRAMMING_FAILED: STUN trap rules for server profile %s failed.

Severity: Error

Explanation: Failed to program hardware trap rules for STUN server profile.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

INTF_IP_ADDRESS_CHANGED: STUN server is listening on %d IP address(es)%s.

Severity: Warning

Explanation: Configured IP address for a STUN interface has changed.

Recommended Action: No action is required – this message is for information only.

MAX_REQUEST_RETRY_REACHED: STUN binding request for source %s port %d and server profile %s exhausted all retries.

Severity: Warning

Explanation: Max attempts to get STUN binding exhausted.

Recommended Action: Check network connectivity to the destination.

NAT_TRANSLATION_CHANGED: STUN detected change in NAT translation from IP %s port %d to IP %s port %d for source IP %s port %d.

Severity: Info

Explanation: STUN detected change in NAT translation.

Recommended Action: No action is required – this message is for information only.

PWD_AUTHENTICATION_FAILED: Password authentication between client %s port %d and server %s port %d failed.

Severity: Error

Explanation: Password authentication between client and server failed.

Recommended Action: Verify whether the configured credentials are correct.

RESET_REQUESTS: STUN user application %s requested a reset.

Severity: Info

Explanation: STUN user application requested a reset.

Recommended Action: No action is required – this message is for information only.

SERVER_INTF_IGNORED: Interface %s is not a routed interface in the default VRF.

Severity: Warning

Explanation: STUN server does not support listening on interfaces in non-default VRFs.

Recommended Action: Remove the local-interface config or change the VRF to default for the interface.

SSL_CONN_ERROR: SSL error with peer %s port %s, message: %s.

Severity: Error

Explanation: SSL connection failed or timed out.

Recommended Action: Verify the STUN configuration and SSL certificates on the client and the server.

SSL_CONN_SUCCESS: SSL connection successfully established with peer %s port %s.

Severity: Info

Explanation: SSL connection successfully established.

Recommended Action: No action is required – this message is for information only.

SSL_ERROR: SSL error: %s.

Severity: Error

Explanation: There's an SSL error which may cause STUN setup to fail.

Recommended Action: Check if the SSL profiles and certificates have all required fields set properly.

SSL_NO_SERVER_IP_IN_SSL_CERTIFICATE: SSL connection failed because server IP address %s not found in Subject Alternative Names.

Severity: Error

Explanation: Server certificate should have its IP address in Subject Alternative Names.

Recommended Action: Regenerate server certificates with its IP address in Subject Alternative Names.

2.165 SUBINTERFACE Messages

HW_RESOURCE_FULL: Hardware resources are insufficient to configure interface (%s)

Severity: Error

Explanation: Interface is marked operationally down due to insufficient hardware resources

Recommended Action: Please work with customer support to determine if the device can be reconfigured to make resources available

2.166 SYNC E Messages

CLOCK_LOCKED: SyncE is locked onto clock: %s, QL: %s

Severity: Info

Explanation: SyncE has acquired lock to a reference clock source

Recommended Action: No action is required – this message is for information only.

FREERUNNING: SyncE is operating in free-running mode

Severity: Info

Explanation: SyncE is operating in free-running mode

Recommended Action: No action is required – this message is for information only.

HOLDOVER: SyncE is operating in holdover mode

Severity: Info

Explanation: SyncE is operating in holdover mode

Recommended Action: No action is required – this message is for information only.

HOLDOVER_ACQUIRED: SyncE has acquired holdover memory

Severity: Info

Explanation: SyncE has acquired holdover memory

Recommended Action: No action is required – this message is for information only.

QL_CHANGE: SyncE clock: %s, old QL: %s, new QL: %s

Severity: Info

Explanation: SyncE clock quality level has changed

Recommended Action: No action is required – this message is for information only.

2.167 SYS Messages

BOOT_COPY_FAILED: Failed to copy new SWI into place due to: %s

Severity: Info

Explanation: The system was unable to copy the new SWI file into the boot location.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

BOOT_FAILED_UPDATE_BOOT_IMAGE: There was an issue with updating the boot image.

Severity: Error

Explanation: Updating the boot image failed, due to an issue specified in the 'boot system' CLI command

Recommended Action: Check the output of the 'boot system' CLI command to see what the error is.

BOOT_INFO_ERROR: System encountered an error in retrieving information but will continue to boot (%s)

Severity: Warning

Explanation: Error in retrieving system or achitecture info

Recommended Action: No action is required – this message is for information only.

BOOT_NEW_SWI: Boot image has been updated and has a SHA-512 hash of:%s

Severity: Info

Explanation: The SWI used to boot has been overwritten. The hash of the new SWI is displayed in the log message.

Recommended Action: No action is required – this message is for information only.

BOOT_RPM_DATABASE_UPDATE_ERROR: System encountered an error while updating the RPM database but will continue to boot (%s)

Severity: Warning

Explanation: RPM database may contain data of uninstalled RPMs

Recommended Action: No action is required – this message is for information only.

CLI_HOSTNAME_INVALID: Configured hostname '%s' is invalid

Severity: Error

Explanation: The configured hostname is invalid and has been ignored. The hostname must contain only alphanumeric characters, '.' and '-'. It must begin and end with an alphanumeric character. Maximum characters in hostname is 64.

Recommended Action: Configure a valid hostname.

CLI_SCHEDULER_ABORT: Execution of scheduled CLI execution job '%s' was aborted due to an error: %s

Severity: Warning

Explanation: Scheduled execution of a CLI command was aborted. The output of that command has been stored in a log file if max-log-files > 0. The default log file location is flash, but may be in another location if the 'loglocation' option was specified.

Recommended Action: Please try to execute the CLI command interactively to make sure it works fine.

CLI_SCHEDULER_DISABLED_SKIP: Execution of scheduled CLI execution job '%s' was skipped because CliScheduler is currently disabled.

Severity: Notice

Explanation: Scheduled execution of a CLI command was skipped since CliScheduler is currently disabled.

Recommended Action: See the previous log why CliScheduler is disabled.

CLI_SCHEDULER_ENABLED: CliScheduler is enabled, continuing its execution of scheduled CLI jobs.

Severity: Notice

Explanation: CliScheduler is enabled, resuming its execution of scheduled CLI jobs.

Recommended Action: No action is required – this message is for information only.

CLI_SCHEDULER_FILESYSTEM_FULL: Execution of scheduled CLI execution job '%s' was aborted due to target filesystem being full

Severity: Warning

Explanation: Scheduled execution of a CLI command was aborted due to lack of space in target filesystem.

Recommended Action: Please delete unused files to free up space.

CLI_SCHEDULER_JOB_COMPLETED: The scheduled CLI execution job '%s' completed successfully.%s

Severity: Debug

Explanation: A scheduled CLI command successfully executed. The output of that command is stored in a log file if max-log-files > 0. The default log file location is flash:/schedule/..., but may be in another location if the 'loglocation' option was specified.

Recommended Action: No action is required – this message is for information only.

CLI_SCHEDULER_SKIP: Execution of scheduled CLI execution job '%s' was skipped

Severity: Notice

Explanation: Scheduled execution of a CLI command was skipped since previous execution for this job is yet to complete.

Recommended Action: This may be due to CLI command taking long to complete. Please try to increase execution interval to a larger value.

COMMAND_REQUEST_ERROR: Error (%s) on command execution

Severity: Warning

Explanation: Unexpected error caught during the execution of the command.

Recommended Action: No action is required – this message is for information only.

CONFIG_E: Enter configuration mode from %s by %s on %s (%s)

Severity: Notice

Explanation: A network administrator has entered global config mode or updated the system configuration from a configuration file.

Recommended Action: No action is required – this message is for information only.

CONFIG_I: Configured from %s by %s on %s (%s)

Severity: Notice

Explanation: A network administrator has exited global config mode or updated the system configuration from a configuration file.

Recommended Action: No action is required – this message is for information only.

CONFIG_LOCK_CLEAR: The configuration lock was released manually by '%s'.

Severity: Notice

Explanation: The configuration lock was released by a user not holding the lock.

Recommended Action: No action is required – this message is for information only.

CONFIG_REPLACE_FAILURE: Configuration replace operation by %s with %s failed, on %s (%s)

Severity: Error

Explanation: A network administrator has attempted to replace the running configuration of the system, but the operation failed. The running configuration of the system has not changed.

Recommended Action: No action is required – this message is for information only.

CONFIG_REPLACE_SUCCESS: User %s replaced running configuration with %s successfully on %s (%s)

Severity: Notice

Explanation: A network administrator has replaced the running configuration of the system successfully.

Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_ABORTED: User %s aborted configuration session %s on %s (%s)

Severity: Notice

Explanation: A network administrator has aborted a configuration session, thereby having no effect on the running configuration of the system.

Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_COMMIT_FAILURE: User %s committed configuration session %s with errors on %s (%s)

Severity: Error

Explanation: A network administrator has committed a configuration session, but the operation failed. The system may be in an inconsistent state.

Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_COMMIT_SUCCESS: User %s committed configuration session %s%s successfully on %s (%s)

Severity: Notice

Explanation: A network administrator has committed a configuration session, thereby modifying the running configuration of the system.

Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_COMMIT_TIMER_CANCELED: The commit timer on session %s has been canceled. The system configuration will be rolled back.

Severity: Notice

Explanation: Session with commit timer has been aborted by the user.

Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_COMMIT_TIMER_COMPLETED: User %s has confirmed the session %s on %s (%s).

Severity: Notice

Explanation: A network administrator has confirmed the configuration session.

Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_COMMIT_TIMER_STARTED: User %s committed session %s on %s (%s), with timer %d:%d:%d(hr:min:sec).

Severity: Notice

Explanation: A network administrator has committed a configuration session with a timer, thereby modifying the running configuration of the system temporarily.

Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_COMMIT_TIMER_TIMEDOUT: The commit timer on session %s has expired. The system configuration will be rolled back.

Severity: Error

Explanation: Session with commit timer has timed out.

Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_COMMIT_TIMER_UPDATED: User %s updated commit timer with %d:%d:%d(hr:min:sec) for session %s on %s (%s).

Severity: Notice

Explanation: A network administrator has updated the commit timer of a configuration session.

Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_DELETED: User %s deleted configuration session %s on %s (%s)

Severity: Notice

Explanation: A network administrator has deleted a configuration session, thereby having no effect on the running configuration of the system.

Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_ENTERED: User %s entered configuration session %s on %s (%s)

Severity: Notice

Explanation: A network administrator has entered a configuration session.

Recommended Action: No action is required – this message is for information only.

CONFIG_SESSION_EXITED: User %s exited configuration session %s on %s (%s)

Severity: Notice

Explanation: A network administrator has exited a configuration session without committing or aborting, thereby having no effect on the running configuration of the system.

Recommended Action: No action is required – this message is for information only.

CONFIG_STARTUP: Startup config saved from %s by %s on %s (%s).

Severity: Notice

Explanation: A network administrator has saved the system's startup configuration.

Recommended Action: No action is required – this message is for information only.

DEPRECATED_CMD: Deprecated command '*%s*' was executed outside of startup-config by *%s* on *%s* (*%s*)

Severity: Notice

Explanation: Deprecated commands will not be allowed to execute outside of startup-config.

Recommended Action: No action is required – this message is for information only.

EVENT_ACTION_DISCARDED: Event handler *%s* queues reached the max limit

Severity: Error

Explanation: Event handler cannot keep up with the rate of incoming events. Events will be discarded

Recommended Action: Use the repeat interval command

EVENT_ACTION_FAILED: Event handler action *%s* did not complete with exit code 0: *%s*

Severity: Notice

Explanation: Event handler action did not exit normally. Check the logs found at `/var/log/event/eventName` for more information and also examine the bash commands configured to run on activation if the failure persists.

Recommended Action: No action is required – this message is for information only.

EVENT_ACTION_FINISHED_PAST_EXPECTED: Event handler action *%s* finished running, but ran longer than expected.

Severity: Warning

Explanation: Event handler action has finished, but took longer to run than the expected action timeout.

Recommended Action: No action is required – this message is for information only.

EVENT_ACTION_LOG: *%s* triggered *%d* times in the last *%d* seconds

Severity: Warning

Explanation: Event handler log action is configured from Cli to run when a specified condition is met. To see the status of event-handler run 'show event-handler <event-handler-name>' from enabled mode.

Recommended Action: No action is required – this message is for information only.

EVENT_ACTION_RUNNING_PAST_EXPECTED: Event handler action *%s* with PID *%d* is running longer than expected.

Severity: Warning

Explanation: Currently running event handler action is running longer than the expected action timeout.

Recommended Action: Speed up the action or increase the timeout.

EVENT_ASYNC_QUEUED: Event handler *%s* concurrent asynchronous actions reached the max limit

Severity: Error

Explanation: Event handler cannot keep up with the rate of incoming asynchronous actions. Events will be switched to synchronous

Recommended Action: Use the repeat interval command

EVENT_TRIGGERED: Event handler *%s* was activated

Severity: Info

Explanation: Event handler actions are configured from Cli to run when certain conditions are met. To see currently configured event handlers run 'show event-handler' from enabled mode.

Recommended Action: No action is required – this message is for information only.

FILE_COPY_ERROR: An error occurred when copying from *%s* to *%s* (*%s*).

Severity: Error

Explanation: An error occurred when copying a file in the file system.

Recommended Action: This may indicate a serious hardware or software problem. Please check free space and integrity of the file system. If the problem persists, please contact technical support.

KERNEL_PANIC: Reboot due to kernel panic

Severity: Error

Explanation: The system rebooted due to a kernel panic.

Recommended Action: This may indicate a serious hardware or software problem. Contact your customer support representative.

LOCK_CONTENTION: Unable to acquire Activity lock in %ss while running command '%s'.

Severity: Notice

Explanation: Agent was slow to acquire activity lock.

Recommended Action: No action is required – this message is for information only.

LOGMSG_ALERT: Message from %s on %s (%s): %s

Severity: Alert

Explanation: As a result of 'send log' command from the CLI.

Recommended Action: No action is required – this message is for information only.

LOGMSG_CRIT: Message from %s on %s (%s): %s

Severity: Critical

Explanation: As a result of 'send log' command from the CLI.

Recommended Action: No action is required – this message is for information only.

LOGMSG_DBG: Message from %s on %s (%s): %s

Severity: Debug

Explanation: As a result of 'send log' command from the CLI.

Recommended Action: No action is required – this message is for information only.

LOGMSG_EMERG: Message from %s on %s (%s): %s

Severity: Emergency

Explanation: As a result of 'send log' command from the CLI.

Recommended Action: No action is required – this message is for information only.

LOGMSG_ERR: Message from %s on %s (%s): %s

Severity: Error

Explanation: As a result of 'send log' command from the CLI.

Recommended Action: No action is required – this message is for information only.

LOGMSG_INFO: Message from %s on %s (%s): %s

Severity: Info

Explanation: As a result of 'send log' command from the CLI.

Recommended Action: No action is required – this message is for information only.

LOGMSG_NOTICE: Message from %s on %s (%s): %s

Severity: Notice

Explanation: As a result of 'send log' command from the CLI.

Recommended Action: No action is required – this message is for information only.

LOGMSG_WARN: Message from %s on %s (%s): %s

Severity: Warning

Explanation: As a result of 'send log' command from the CLI.

Recommended Action: No action is required – this message is for information only.

MEMORY_EXHAUSTION_CLI_SCHEDULER_DISABLED: CliScheduler is disabled. All subsequent scheduled CLI execution jobs will be skipped.

Severity: Notice

Explanation: CliScheduler is disabled due to memory exhaustion on the system.

Recommended Action: Please try to disable features, then run 'reset system memory exhaustion'.

MEMORY_MONITOR_DISABLED: Memory monitoring feature has been disabled via CLI command

Severity: Notice

Explanation: User has issued command to disable memory monitoring feature.

Recommended Action: No action is required – this message is for information only.

MEMORY_MONITOR_ENABLED: Memory monitoring feature has been enabled via CLI command

Severity: Notice

Explanation: User has issued command to enable memory monitoring feature.

Recommended Action: No action is required – this message is for information only.

PLUGIN_LOAD_FAILED: Unable to load plugin %s (%s)

Severity: Error

Explanation: A plugin could not be loaded. The functionality provided by the plugin is not available. Please check the plugin and restart the agent if necessary.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

RESTART_SERVICE: Service %s is not running. Attempting to restart it.

Severity: Warning

Explanation: Periodic health monitoring found that the said service was not running, and attempted to restart it.

Recommended Action: Check if there is a resource conflict which prevents the said service from running. For example, the same TCP listener port may have been allocated to more than one service.

SCHEDULED_RELOAD_FAILED: Reload scheduled to occur at %s failed%

Severity: Error

Explanation: An error occurred while trying to restart the system. Scheduled reload may not function properly

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

SERVICE_FILESYSTEM_FULL: Write to %s for service '%s' failed because the filesystem is full

Severity: Warning

Explanation: A service attempted to write a file and failed because the filesystem is full

Recommended Action: Please delete unused files to free up space.

SSH_HOST_KEY_REGENERATED: SSH host keys associated with a different system (%s). Regenerating SSH host keys.

Severity: Info

Explanation: Software has detected that the SSH host keys on this system are associated with the mac address of a different system. This can happen in a modular system when a supervisor is moved to a different chassis. New SSH host keys have been generated for the system.

Recommended Action: No action is required – this message is for information only.

SSH_HOST_KEY_UPDATED: SSH host key %s has been updated. The %s hash of public key %s fingerprint is %s.

Severity: Info

Explanation: Software has detected that the SSH host keys on this system has been updated. This can happen when a modular system supervisor is moved to a different chassis, a user requests to reset the host key, the host key file is being created for the first time, or the host key file is somehow deleted.

Recommended Action: No action is required – this message is for information only.

SWI_UNSUPPORTED: The boot image does not support the system (%s)

Severity: Warning

Explanation: Architecture of booted image is unsupported for current platform

Recommended Action: No action is required – this message is for information only.

SYSTEM_CLEANUP_FAILED: System Cleanup after cli configuration by %s on %s (%s) failed

Severity: Notice

Explanation: The system is taking a long time to clean up after the last configuration request from the Cli. This may mean an unusually large configuration change was requested from the Cli, which resulted in prolonged processing by the switching software.

Recommended Action: No action is needed. However avoid loading the switch with large amount of configuration changes in quick succession.

SYSTEM_INFO: %s

Severity: Info

Explanation: [information log message]

Recommended Action: No action is required – this message is for information only.

SYSTEM_INITIALIZATION_TIMEOUT: System is declared initialized (some agents such as %s are not ready)

Severity: Warning

Explanation: The system has taken enough time to initialize even though some agents have not finished initialization. Some features might be affected.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SYSTEM_INITIALIZED: System is initialized

Severity: Notice

Explanation: The initial set of running agents have initialized and the system is ready

Recommended Action: No action is required – this message is for information only.

SYSTEM_RESTARTED: System restarted

Severity: Notice

Explanation: The system has restarted

Recommended Action: No action is required – this message is for information only.

SYSTEM_WARMUP_FAILED: System warmup after cli configuration by %s on %s (%s) failed

Severity: Notice

Explanation: The system is taking a long time to warm up after the last configuration request from the Cli. This may mean an unusually large configuration change was requested from the Cli, which resulted in prolonged processing by the switching software.

Recommended Action: No action is needed. However avoid loading the switch with large amount of configuration changes in quick succession.

2.168 SYSDB Messages

STARTUP_CONFIG_ERROR: Unable to load initial configuration (code %d)

Severity: Emergency

Explanation: Error occurred while loading the initial system configuration. Exiting.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

STARTUP_CONFIG_FROM_BOOT_IMAGE: Local startup-config was overwritten by boot image %s

Severity: Info

Explanation: The startup-config file packaged inside the boot image was written to /mnt/flash/startup-config. In order to ensure the integrity of that signed config, any untrusted files in /mnt/flash were deleted.

Recommended Action: No action is required – this message is for information only.

STARTUP_CONFIG_PARSE_ERROR: Errors encountered in parsing the startup-config

Severity: Error

Explanation: One or more errors were encountered while parsing the startup-config due to invalid, incomplete and/or unavailable commands.

Recommended Action: Please run 'show startup-config errors' to look at the exact error(s) and fix them in the startup-config.

STARTUP_CONFIG_TIMEOUT: Timed out loading initial configuration

Severity: Emergency

Explanation: Loading the initial system configuration took longer than expected timeout.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

2.169 SZTP Messages

BOOTSTRAP_COMPLETE: The SZTP onboarding provisioning process successfully completed

Severity: Info

Explanation: The Secure Zero Touch Provisioning has completed onboarding the device.

Recommended Action: No action is required – this message is for information only.

BOOTSTRAP_CONNECT_FAILED: Failed to connect to %s SZTP bootstrap server %s

Severity: Warning

Explanation: The Secure Zero Touch Provisioning failed to establish a secure connection to SZTP bootstrap Restconf server. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: Check the SZTP Server URI and ensure the bootstrap server is accessible.

BOOTSTRAP_DOWNLOAD: Attempting to download SZTP conveyed-info from %s

Severity: Info

Explanation: The Secure Zero Touch Provisioning is attempting to download conveyed-info from the URI specified in the received DHCP/Restconf response.

Recommended Action: No action is required – this message is for information only.

BOOTSTRAP_DOWNLOAD_FAIL: Failed to download the SZTP conveyed-info from %s (HTTP: %d). Error: %s

Severity: Warning

Explanation: The Secure Zero Touch Provisioning failed to download the conveyed-info from the URI specified in the received DHCP/Restconf response. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: Check the URI specified in the DHCP response.

BOOTSTRAP_INFO_PARSING_FAILED: Failed to parse the SZTP conveyed-info artifacts

Severity: Warning

Explanation: The Secure Zero Touch Provisioning failed to parse the conveyed-info artifacts from the URI specified in the received DHCP/Restconf response. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

BOOTSTRAP_INFO_PARSING_SUCCESS: Successfully parsed the SZTP conveyed-info artifacts

Severity: Info

Explanation: The Secure Zero Touch Provisioning successfully parsed the conveyed-info artifacts from the URI specified in the received DHCP/Restconf response.

Recommended Action: No action is required – this message is for information only.

BOOTSTRAP_NOT_ACCEPTED: Unsigned SZTP conveyed-info not accepted from untrusted host %s

Severity: Warning

Explanation: The Secure Zero Touch Provisioning did not accept the conveyed-info from the URI specified in the received DHCP/Restconf response. Data must either be signed or the connection must be trusted. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: Ensure SZTP conveyed-info is signed or the connection is trusted

BOOT_IMAGE_CONNECT_FAIL: Unable to connect to any URI contained in the SZTP boot-image download-uri(s)

Severity: Warning

Explanation: The Secure Zero Touch Provisioning was unable to establish a connection to any boot-image download-uri(s). To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

BOOT_IMAGE_DOWNLOAD: Attempting to download SZTP onboarding boot-image from %s

Severity: Info

Explanation: The Secure Zero Touch Provisioning is attempting to download the onboarding boot-image from the boot-image configuration specified in the SZTP onboarding-information.

Recommended Action: No action is required – this message is for information only.

BOOT_IMAGE_DOWNLOAD_FAIL: Failed to download the SZTP boot-image from %s (%s: %s)

Severity: Warning

Explanation: The Secure Zero Touch Provisioning failed to download the boot-image from the URI specified in the onboarding-info. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: Check the download-uri specified in the SZTP onboarding-info.

BOOT_IMAGE_DOWNLOAD_TIMEOUT: Timed out trying to download the SZTP boot-image from %s after %u seconds

Severity: Warning

Explanation: The Secure Zero Touch Provisioning timed out trying to download the boot-image from the download-uri specified in the conveyed-info. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

BOOT_IMAGE_MATCH: The SZTP boot-image (os-name '%s', os-version '%s') is already installed

Severity: Info

Explanation: The Secure Zero Touch Provisioning has verified the installed image matches the boot-image credentials specified in the SZTP onboarding-information.

Recommended Action: No action is required – this message is for information only.

BOOT_IMAGE_OS_UNSPECIFIED: The SZTP boot-image os-name/os-version is unspecified, continuing onboarding process

Severity: Info

Explanation: The Secure Zero Touch Provisioning boot-image os-name/os-version is unspecified in the onboarding-information. The SZTP onboarding process will skip verifying the installed boot-image

Recommended Action: No action is required – this message is for information only.

BOOT_IMAGE_URI_CONNECT_FAIL: Failed to establish a connection to the SZTP boot-image download-uri %s

Severity: Warning

Explanation: The Secure Zero Touch Provisioning failed to establish a connection to the boot-image download-uri. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

BOOT_IMAGE_URI_UNSPECIFIED: SZTP boot-image download-uri unspecified

Severity: Warning

Explanation: The Secure Zero Touch Provisioning boot-image download-uri is unspecified in the onboarding-information. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

BOOT_IMAGE_URI_UNSUPPORTED_SCHEME: SZTP boot-image download-uri %s specifies an unsupported scheme

Severity: Info

Explanation: The Secure Zero Touch Provisioning boot-image download-uri specifies an unsupported scheme.

Recommended Action: No action is required – this message is for information only.

BOOT_IMAGE_VERIFICATION_FAIL: The SZTP onboarding boot-image %s hash-value verification failed

Severity: Warning

Explanation: The Secure Zero Touch Provisioning failed to verify the boot-image hash-value specified in the onboarding-info. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

BOOT_IMAGE_VERIFICATION_PASS: The SZTP onboarding boot-image %s hash-value verification passed

Severity: Info

Explanation: The Secure Zero Touch Provisioning verified the boot-image hash-value specified in the onboarding-info.

Recommended Action: No action is required – this message is for information only.

CONFIG_WRITE_FAIL: Failed to save the SZTP conveyed-info artifact to %s

Severity: Warning

Explanation: The Secure Zero Touch Provisioning failed to save the conveyed-info artifact to a temporary file. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CONFIG_WRITE_SUCCESS: Successfully saved SZTP conveyed-info artifact to %s

Severity: Info

Explanation: The Secure Zero Touch Provisioning successfully saved the conveyed-info artifact to a temporary file.

Recommended Action: No action is required – this message is for information only.

EXEC_BOOT_IMAGE_SCRIPT: Executing the SZTP onboarding boot-image install script

Severity: Info

Explanation: The Secure Zero Touch Provisioning is executing the onboarding boot-image install script.

Recommended Action: No action is required – this message is for information only.

EXEC_BOOT_IMAGE_SCRIPT_FAIL: The SZTP onboarding boot-image install script exited with error code: (%s) %s

Severity: Warning

Explanation: The Secure Zero Touch Provisioning failed to execute the SZTP onboarding boot-image install script. This usually indicates a problem executing the script or the script exited with a non zero return code. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EXEC_BOOT_IMAGE_SCRIPT_SIGNALED: The SZTP onboarding boot-image script exited with an uncaught signal. Signal code: %s

Severity: Warning

Explanation: The Secure Zero Touch Provisioning failed to execute the onboarding boot-image script. This usually indicates a problem executing the script. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EXEC_BOOT_IMAGE_SCRIPT_SUCCESS: Successfully executed the SZTP onboarding boot-image install script

Severity: Info

Explanation: The Secure Zero Touch Provisioning successfully executed the SZTP onboarding boot-image install script.

Recommended Action: No action is required – this message is for information only.

EXEC_BOOT_IMAGE_SCRIPT_TIMEOUT: Timed out executing the SZTP onboarding boot-image install script after %u seconds

Severity: Warning

Explanation: The Secure Zero Touch Provisioning timed out after waiting long enough for the onboarding boot-image install script to complete execution. This usually indicates a problem with the script. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EXEC_POST_CONFIG_SCRIPT: Executing the SZTP onboarding post-configuration script

Severity: Info

Explanation: The Secure Zero Touch Provisioning is executing the onboarding post-configuration script.

Recommended Action: No action is required – this message is for information only.

EXEC_POST_CONFIG_SCRIPT_FAIL: The SZTP onboarding post-configuration script exited with error code: (%s) %s

Severity: Warning

Explanation: The Secure Zero Touch Provisioning failed to execute the onboarding post-configuration script. This usually indicates a problem executing the script or the script exited with a non zero return code. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EXEC_POST_CONFIG_SCRIPT_SUCCESS: Successfully executed the SZTP onboarding post-configuration script

Severity: Info

Explanation: The Secure Zero Touch Provisioning successfully executed the onboarding post-configuration script.

Recommended Action: No action is required – this message is for information only.

EXEC_POST_SCRIPT_SIGNALED: The SZTP onboarding post-configuration script exited with an uncaught signal. Signal code: %s

Severity: Warning

Explanation: The Secure Zero Touch Provisioning failed to execute the onboarding post-configuration script. This usually indicates a problem executing the script. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EXEC_POST_SCRIPT_TIMEOUT: Timed out executing the SZTP onboarding post-configuration script after %u seconds

Severity: Warning

Explanation: The Secure Zero Touch Provisioning timed out after waiting long enough for the onboarding post-configuration script to complete execution. This usually indicates a problem with the script. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EXEC_PRE_CONFIG_SCRIPT: Executing the SZTP onboarding pre-configuration script

Severity: Info

Explanation: The Secure Zero Touch Provisioning is executing the onboarding pre-configuration script.

Recommended Action: No action is required – this message is for information only.

EXEC_PRE_CONFIG_SCRIPT_FAIL: The SZTP onboarding pre-configuration script exited with error code: (%s) %s

Severity: Warning

Explanation: The Secure Zero Touch Provisioning failed to execute the SZTP onboarding pre-configuration script. This usually indicates a problem executing the script or the script exited with a non zero return code. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EXEC_PRE_CONFIG_SCRIPT_SUCCESS: Successfully executed the SZTP onboarding pre-configuration script

Severity: Info

Explanation: The Secure Zero Touch Provisioning successfully executed the SZTP onboarding pre-configuration script.

Recommended Action: No action is required – this message is for information only.

EXEC_PRE_SCRIPT_SIGNALED: The SZTP onboarding pre-configuration script exited with an uncaught signal. Signal code: %s

Severity: Warning

Explanation: The Secure Zero Touch Provisioning failed to execute the onboarding pre-configuration script. This usually indicates a problem executing the script. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

EXEC_PRE_SCRIPT_TIMEOUT: Timed out executing the SZTP onboarding pre-configuration script after %u seconds

Severity: Warning

Explanation: The Secure Zero Touch Provisioning timed out after waiting long enough for the onboarding pre-configuration script to complete execution. This usually indicates a problem with the script. To cancel Zero Touch Provisioning, type `zerotouch cancel` at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.170 TAPAGG Messages

HW_RESOURCE_FULL: Hardware resources are insufficient to program all Tap Ports/TapAgg Policy-Maps

Severity: Error

Explanation: The switch is unable to program all Tap Ports/TapAgg Policy Maps due to insufficient hardware resources.

Recommended Action: Reconfigure your TapAgg Policy-Maps or Tap ports.

OPERATIONAL_MODE: Tap aggregation %s

Severity: Info

Explanation: Tap aggregation feature is enabled or disabled. Some features and/or ports may be disabled if their configuration is not compatible with the current tap aggregation mode. In exclusive mode the layer2/layer3 protocols may not work as expected

Recommended Action: No action is required – this message is for information only.

POLICY_DENY_RULE_UNSUPPORTED: Unsupported deny rule found while programming the policy map %s on %s

Severity: Notice

Explanation: The named policy map is programmed with no action for any associated deny rules, in place of a drop action, because the drop action is not supported on the named device.

Recommended Action: Remove deny rules specified in the named policy map.

TIMESTAMP_FEATURE_OVERRIDE: "%s" feature disabled on %s due to shared resources with timestamping.

Severity: Warning

Explanation: Traffic will contain a timestamp, but will not be further modified as would be applicable by the disabled feature(s).

Recommended Action: Timestamping can be disabled on the relevant interface(s), if preferred.

2.171 TCAM Messages

ACTION_NOT_AVAILABLE: The %s action required to support the %s feature is not present in the TCAM profile configured on %s

Severity: Warning

Explanation: A setting requires an action that is not present in the corresponding feature's definition. The feature will not work correctly.

Recommended Action: Add the action to the correct feature in the TCAM profile.

FEATURE_NOT_SUPPORTED: The %s feature is not supported in the TCAM profile programmed on %s. %s %s

Severity: Warning

Explanation: The feature's TCAM rules were not programmed in the hardware

Recommended Action: Please use a TCAM profile that supports this feature

HARDWARE_RESOURCE_FULL: Hardware resources are insufficient to program %s feature.

Severity: Error

Explanation: The switch is unable to program the feature due to insufficient hardware resources. The feature might not work correctly.

Recommended Action: Free up some TCAM banks or ACLs to get TCAM resources to accommodate the entries for the feature

KEY_FIELD_INCORRECT: The %s key field included in feature '%s' is incorrect.

Severity: Warning

Explanation: This key field may match on random packet contents and result in unexpected matches.

Recommended Action: Remove the key field from the feature in the TCAM profile

PROFILE_IMPORT_FAILED: Failed to import profile %s from source %s. Possible reason: %s. Please check source's validity.

Severity: Error

Explanation: This TCAM profile is set up with a non-static source to load its contents. The Source is a local file and must be available at the time of import. The content in the file must conform to the profile configuration syntax.

Recommended Action: Check the source and contents of the file.

PROFILE_IMPORT_SUCCESS: Successfully imported TCAM profile %s from source %s.

Severity: Info

Explanation: This TCAM profile is set up with a local file and must be available at the time of import. The content of the file must conform to the profile configuration syntax.

Recommended Action: No action is required – this message is for information only.

PROGRAMMING_FAILURE: Failed to program configured TCAM profile %s on %s (%s)

Severity: Error

Explanation: Switch ASIC cannot be programmed with the user defined profile

Recommended Action: Reconfigure hardware tcam

PROGRAMMING_WARNING: %s in TCAM profile %s on %s

Severity: Warning

Explanation: Configurations in the user TCAM profile are ignored

Recommended Action: No action is required – this message is for information only.

2.172 TCP Messages

BDAUTH: Invalid/Unexpected/No MD5 digest from %s(%d) to %s(%d)

Severity: Notice

Explanation: Passwords of BGP peers are not identical

Recommended Action: Make sure that passwords, if configured, are configured on both peers, and that they are identical.

2.173 TCPAO Messages

MKT_CHANGE_ERROR: TCP AO cannot update an already in-use MKT (id=%s, profile name=%s) on connection from %s:%s to %s:%s.

Severity: Error

Explanation: TCP AO does not support changing an MKT during a connection. See RFC 5925 section 3.1: MKT component values cannot change during a connection because TCP state is coordinated during connection establishment. TCP lacks a handshake for modifying that state after a connection has been established.

Recommended Action: MKT components change failed or not supported. Please change it back to the original. To update a MKT component, a new MKT can be installed by adding a new secret to the shared secret profile associated with this socket. The new secret can use either a higher ID value than or a lifetime duration which starts after the secret to be changed. TCP AO will rekey the connection to use the new key. It is important to update the remote end of the TCP connection to use the new MKT.

MKT_FORCE_REMOVE: TCP AO is forcibly removing an in-use MKT id=%s on connection from %s:%s to %s:%s.

Severity: Error

Explanation: TCP AO does not support removing an MKT being used by an active connection. This error occurs when the remote end of the TCP session has failed to rekey the connection with a new MKT.

Recommended Action: Verify both ends of the TCP session are using the same MKT. If this is the case, and the connection is still not transmitting data, reset the TCP connection and contact your technical support representative.

NOT_SUPPORTED_ERROR: The connection from %s:%s to %s:%s cannot be established; the kernel lacks TCP AO support.

Severity: Error

Explanation: This error indicates a user-space agent has attempted to set a TCP AO socket option when the kernel lacks TCP AO support.

Recommended Action: Verify kernel support for TCP AO is as expected. Assuming TCP AO support is not expected, remove the TCP AO configuration from the relevant TCP application. If the error persists, contact your technical support representative.

2.174 TIMESYNC Messages

SYNC_STATE_CHANGED: Sync status on time reference %s, with interface %s changed to %s

Severity: Notice

Explanation: Synchronization with a given reference has changed state. If it has changed to holdover mode, synchronization may be lost

Recommended Action: Check that your front panel interfaces are seated correctly

2.175 TRAFFICPOLICY Messages

EGRESS_LOG: Traffic policy %s match rule %s with 'out' direction dropped %s %s -> %s

Severity: Info

Explanation: A packet has matched one of the rules with 'log' action in the specified egress traffic policy.

Recommended Action: No action is required – this message is for information only.

EGRESS_LOG_TUNNEL: Traffic policy %s match rule %s with 'out' direction dropped %s %s -> %s / %s %s -> %s

Severity: Info

Explanation: A packet has matched one of the rules with 'log' action in the specified egress traffic policy.

Recommended Action: No action is required – this message is for information only.

FIELD_SET_IMPORT_FAILED: Failed to import %s field-set %s from source %s. Possible reason: %s. Please check the source's validity.

Severity: Error

Explanation: This field-set is set up with an import source URL to load its contents. The source is either a local file or a remote URL and must be available at the time of import. The entries in the file must conform to the field-set entry syntax.

Recommended Action: Check the URL and contents of the file.

FIELD_SET_IMPORT_SUCCEEDED: Successfully imported %s field-set %s from source %s.

Severity: Info

Explanation: This field-set is set up with an import source URL to load its contents. The source is either a local file or a remote URL and must be available at the time of import. The entries in the file must conform to the field-set entry syntax.

Recommended Action: No action is required – this message is for information only.

HW_RESOURCE_FULL: Failed programming %d %s rules for the CPU traffic policy '%s' on %s: Rules exceed hardware capacity.

Severity: Error

Explanation: The switch is unable to program all CPU traffic policy rules due to insufficient hardware resources.

Recommended Action: Reduce number of CPU traffic policy rules or reconfigure other features to free up hardware resources for CPU traffic policy

HW_RESOURCE_NORMAL: Successfully programmed %d %s rules for the CPU traffic policy '%s' on %s: Rules are within hardware capacity limits.

Severity: Error

Explanation: The switch was able to program all CPU traffic policy rules in the hardware.

Recommended Action: No action is required – this message is for information only.

INGRESS_LOG: Traffic policy %s match rule %s on %s with 'in' direction dropped %s %s -> %s

Severity: Info

Explanation: A packet has matched one of the rules with 'log' action in the specified ingress traffic policy.

Recommended Action: No action is required – this message is for information only.

INGRESS_LOG_TUNNEL: Traffic policy %s match rule %s on %s with 'in' direction dropped %s %s -> %s / %s %s -> %s

Severity: Info

Explanation: A packet has matched one of the rules with 'log' action in the specified ingress traffic policy.

Recommended Action: No action is required – this message is for information only.

LEM_OVERFLOW: LEM has overflowed on fap %s

Severity: Error

Explanation: LEM has overflowed in programming traffic policy transformation.

Recommended Action: No action is required – this message is for information only.

LEM_RECOVER: LEM programming has recovered on fap %s

Severity: Info

Explanation: LEM programming of traffic policy transformation is successful after earlier failure.

Recommended Action: No action is required – this message is for information only.

POLICER_RESOURCE_FULL: Insufficient hardware resources to program the police action for the CPU traffic policy '%s' on %s %s.

Severity: Error

Explanation: Reconfigure CPU traffic policy or other features to use fewer rules with police actions to free up hardware resources.

Recommended Action: No action is required – this message is for information only.

UNKNOWN_LOG: unknown rule on %s dropped %s %s -> %s

Severity: Info

Explanation: A packet has matched an unknown rule with 'log' action

Recommended Action: No action is required – this message is for information only.

UNKNOWN_LOG_TUNNEL: unknown rule on %s dropped %s %s -> %s / %s %s -> %s

Severity: Info

Explanation: A packet has matched an unknown rule with 'log' action

Recommended Action: No action is required – this message is for information only.

2.176 TRANSCEIVER Messages

ASSERTION_ERROR: An unexpected internal error has occurred in the Xcvt library with %s.

Severity: Error

Explanation: An unexpected internal error has occurred.

Recommended Action: Contact your support representative.

DATA_NOT_READY_TIMEOUT: Transceiver for interface %s has not declared itself ready after multiple resets and has been assumed ready. Manufacturer: %s model: %s part number: %s rev: %s serial number: %s

Severity: Warning

Explanation: The transceiver keeps the data_not_ready flag asserted after multiple resets. The module has been assumed ready, but this may indicate a faulty or poorly behaving module. Contact the transceiver manufacturer.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

DISABLED: The transceiver for interface %s has been disabled because it is not qualified. (manufacturer %s model %s serial number %s)

Severity: Error

Explanation: The transceiver is not qualified. It has been disabled.

Recommended Action: Replace the transceiver with a qualified one.

DOM_THRESHOLD_OVERRIDE_FAILED: %s doesn't exist or contains errors.

Severity: Error

Explanation: The transceiver DOM thresholds weren't overridden.

Recommended Action: Check the DOM threshold file to make sure it exists and has the right format.

DOM_THRESHOLD_OVERRIDE_WARNING: Custom-defined DOM thresholds have been enabled, and will be used instead of the manufacturer-defined thresholds.

Severity: Warning

Explanation: Custom DOM thresholds have been enabled by the transceiver dom-threshold command. These thresholds will apply to modules meeting the custom-defined conditions. The custom DOM thresholds will now be used in place of manufacturer-defined thresholds.

Recommended Action: Ensure the custom DOM thresholds are appropriate for the matching transceivers.

EEPROM_CHECKSUM_ERROR: Transceiver for interface %s has checksum errors %s Manufacturer: %s model: %s rev: %s serial number: %s

Severity: Warning

Explanation: The transceiver has checksum errors. Please contact the manufacturer for support.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FEC_DETECTED_DEGRADE_ALARM: %s Pre-FEC BER is at or above the raise alarm threshold of %s

Severity: Warning

Explanation: The transceiver FEC detected degrade monitor is currently reporting a value above the raise alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FEC_DETECTED_DEGRADE_ALARM_RECOVERED: %s Pre-FEC BER is at or below the clear alarm threshold of %s

Severity: Warning

Explanation: The transceiver FEC detected degrade monitor is currently reporting a value below the clear alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FEC_EXCESSIVE_DEGRADE_ALARM: %s Pre-FEC BER is at or above the raise alarm threshold of %s

Severity: Error

Explanation: The transceiver FEC excessive degrade monitor is currently reporting a value above the raise alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FEC_EXCESSIVE_DEGRADE_ALARM_RECOVERED: %s Pre-FEC BER is at or below the clear alarm threshold of %s

Severity: Error

Explanation: The transceiver FEC excessive degrade monitor is currently reporting a value below the clear alarm threshold.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

FIRMWARE_ACTIVATED_STANDBY: Activated standby firmware version (%s) for the transceiver in slot %s

Severity: Info

Explanation: The inactive firmware version has been activated on the inserted transceiver

Recommended Action: No action is required – this message is for information only.

FIRMWARE_CDB_ERROR: Failed to execute the %s firmware command for the transceiver in slot %s

Severity: Info

Explanation: An ongoing firmware command has not finished successfully

Recommended Action: No action is required – this message is for information only.

FIRMWARE_OPERATION_STARTED: Started to process the %s firmware command for the transceiver in slot %s

Severity: Info

Explanation: A firmware management command has been issued on the inserted transceiver

Recommended Action: No action is required – this message is for information only.

FIRMWARE_OPERATION_TERMINATED: Forcefully terminated the %s operation for the transceiver in slot %s

Severity: Info

Explanation: An ongoing firmware update process has been forcefully terminated

Recommended Action: No action is required – this message is for information only.

FIRMWARE_UPDATED: Finished updating firmware to a new version (%s) for the transceiver in slot %s

Severity: Info

Explanation: Firmware version has been updated and activated on the inserted transceiver

Recommended Action: No action is required – this message is for information only.

FIRMWARE_UPDATED_INACTIVE: Finished updating the inactive firmware to a new version (%s) for the transceiver in slot %s

Severity: Info

Explanation: The inactive firmware has been updated to a new version

Recommended Action: Execute the 'transceiver firmware activate-standby slot X' on the appropriate interface to activate the new firmware version

FIRMWARE_UPDATE_ABORTED: Aborted the firmware update process for the transceiver in slot %s

Severity: Info

Explanation: An ongoing firmware update process has been aborted and the transceiver's firmware was restored to its original state

Recommended Action: No action is required – this message is for information only.

FREQUENCY_MISCONFIGURED: Transceiver for interface %s has an unconfigured or misconfigured frequency or channel.

Severity: Warning

Explanation: Installed transceiver is disabled until a supported frequency or channel is configured.

Recommended Action: Configure transceiver with a supported frequency or channel.

INCOMPATIBLE: The transceiver for interface %s has been disabled because it is not compatible. (transceiver type %s manufacturer %s model %s serial number %s)

Severity: Error

Explanation: The transceiver is not compatible. It has been disabled

Recommended Action: Replace the transceiver with a compatible one

INIT_COMPLETE_TIMEOUT: Transceiver for interface %s has not completed initialization within 60 seconds and has been assumed ready. Manufacturer: %s model: %s part number: %s rev: %s serial number: %s

Severity: Warning

Explanation: The transceiver supports indicating when initialization is complete, but has not indicated within 60 seconds. The module has been assumed ready, but this may indicate a faulty or poorly behaving module. Contact the transceiver manufacturer.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

LOOPBACK_CONF: Loopback for transceiver in slot %s with traffic source %s on %s side has been configured on lane(s) %s

Severity: Info

Explanation: The transceiver will now loopback the traffic on the specified lanes according to the configured mode

Recommended Action: No action is required – this message is for information only.

LOOPBACK_UNCONF: Loopback for transceiver in slot %s with traffic source %s on %s side has been unconfigured on lane(s) %s

Severity: Info

Explanation: The transceiver will now resume normal operation on the specified lanes

Recommended Action: No action is required – this message is for information only.

POWER_CLASS_UNSUPPORTED: The transceiver in slot %s is disabled, as it requires more power than can be provided in this slot. Manufacturer: %s model: %s rev: %s serial number: %s Maximum power available: %fW Transceiver power request: %fW

Severity: Warning

Explanation: The inserted transceiver requires more power than can be provided by the slot.

Recommended Action: Check the product documentation to see if other slots may support the power requirements of this transceiver.

POWER_CYCLE: Transceiver slots %s were power cycled.

Severity: Info

Explanation: The transceivers were power cycled due to user configuration.

Recommended Action: No action is required – this message is for information only.

POWER_IGNORED: The transceiver in slot %s may require more power than can be provided in this slot. Manufacturer: %s model: %s rev: %s serial number: %s Maximum power available: %fW Transceiver power request: %fW

Severity: Warning

Explanation: The inserted transceiver may require more power than can be provided by the slot.

Recommended Action: Check the product documentation to verify that the actual power required by the transceiver can be provided by the slot.

SFP_SW_RX_LOS_UNSUPPORTED: The transceiver in interface %s does not support software RX_LOS, which is required when operating in a %s transceiver slot. The transceiver will be enabled with this limitation. However, link up and link down events may be unreliable. Manufacturer: %s model: %s rev: %s serial number: %s.

Severity: Warning

Explanation: The transceiver will be enabled without support of software RX_LOS. However, link up and link down events may be unreliable.

Recommended Action: No action is required – this message is for information only.

SFP_SW_TX_DISABLE_UNSUPPORTED: The transceiver in interface %s does not support software TX_DISABLE, which is required when operating in a %s transceiver slot. The transceiver will be enabled with this limitation. However, the interface shutdown command and other related functions may not work as expected. Manufacturer: %s model: %s rev: %s serial number: %s.

Severity: Warning

Explanation: The transceiver will be enabled without support of software TX_DISABLE. However, the interface shutdown command and other related functions may not work as expected.

Recommended Action: No action is required – this message is for information only.

SFP_SW_TX_FAULT_UNSUPPORTED: The transceiver in interface %s does not support software TX_FAULT, which is required when operating in a %s transceiver slot. The transceiver will be enabled with this limitation. However, the TX_FAULT signal will be unavailable for link diagnostics. Manufacturer: %s model: %s rev: %s serial number: %s.

Severity: Warning

Explanation: The transceiver will be enabled with this limitation. However, the TX_FAULT signal will be unavailable for link diagnostics.

Recommended Action: No action is required – this message is for information only.

SMBUS_COMMUNICATION_FAILURE: Transceiver for interface %s is unresponsive to SMBus and is being marked as faulty. Vendor: %s, model: %s, rev: %s, serial number: %s

Severity: Error

Explanation: The transceiver is not responding to SMBus transactions and is being marked as faulty. This will result in a module presence change.

Recommended Action: Replace transceiver.

SW_TX_DISABLE_UNSUPPORTED: The transceiver in interface %s does not support software TX disable.

Severity: Warning

Explanation: The transceiver in interface %s does not support software TX disable, which is required when using a QSFP28-to-SFP28 Adapter (QSA28). The module will be enabled. However, the interface shutdown command and other related functions may not work as expected.

Recommended Action: No action is required – this message is for information only.

TUNING_OVERRIDE_FILE_ERROR: Custom tuning file %s was ignored due to: %s.

Severity: Error

Explanation: The CLI command "transceiver electrical tuning file" was ignored due to errors. The default tuning exceptions have been applied instead.

Recommended Action: Please check the tuning exception file and fix any issues. Then rerun the command.

UNLOCK_METHOD_OBSOLETE: Obsolete transceiver unlock method ignored.

Severity: Warning

Explanation: An obsolete transceiver unlock method is configured on the switch.

Recommended Action: Disable the obsolete transceiver unlock method.

2.177 TUNNEL Messages

HW_RESOURCE_FULL: Hardware resources are insufficient to program all tunnels.

Severity: Error

Explanation: The switch is unable to program all tunnels due to insufficient hardware resources. Packets to/from one or more tunnels may not get forwarded in hardware.

Recommended Action: Reconfigure your network to reduce the number of tunnels in the switch.

HW_RESOURCE_NORMAL: Hardware resources to program tunnels are recovered.

Severity: Error

Explanation: The switch was able to program all tunnels in hardware.

Recommended Action: No action is required – this message is for information only.

SOURCE_ADDRESS_RESOURCE_FULL: A secure tunnel cannot be programmed in hardware because the number of local source addresses exceeds the maximum limit (%d)

Severity: Error

Explanation: The switch is unable to program a secure tunnel because too many local source addresses have been configured

Recommended Action: Reduce the number of local source addresses used in secure tunnels

2.178 TUNNELINTF Messages

KERNEL_DEVICE_ERROR: An error (%s) occurred while configuring the kernel device for %s

Severity: Warning

Explanation: Try removing and re-adding the interface from the configuration

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

LOOP_DETECTED: A loop has been detected while resolving tunnel underlay destination (%s) for %s

Severity: Warning

Explanation: A tunnel underlay destination should not recursively resolve over the same tunnel

Recommended Action: Please remove the route causing the loop

2.179 UCMP Messages

RESOURCE_THRESHOLD_HIGH: UCMP routes hardware resource utilization is exceeding the configured trigger threshold.

Severity: Error

Explanation: The switch is running out of hardware resource for programming new routes in the routing table due to high usage by UCMP routes.

Recommended Action: To solve this issue, reconfigure the network to reduce the UCMP entries in the routing table

RESOURCE_THRESHOLD_NORMAL: UCMP routes hardware resource utilization is now lower than the configured clear threshold.

Severity: Error

Explanation: The switch is back to configured clear(normal) threshold for UCMP routes hardware resource utilization.

Recommended Action: No action is required – this message is for information only.

2.180 UNEXPECTED Messages

IPV6_NEIGHBOR_ADVERTISEMENT_DROPPED: An IPv6 neighbor advertisement packet received on SVI %s, in the absence of both ipv6 address virtual and ipv6 virtual-router configurations or isn't destined to virtual MAC (when ipv6 address virtual is configured) or bridge MAC (when ipv6 virtual-router is configured), has been dropped.

Severity: Notice

Explanation: Only the IPv6 neighbor advertisement packets destined to either virtual MAC (when ipv6 address virtual is configured) or bridge MAC (when ipv6 virtual-router is configured) would be handled by the VxlanSwFwd agent.

Recommended Action: No action is required – this message is for information only.

2.181 UNKNOWN Messages

CARD_INSERTED: Unable to determine if %s (%s_%s) is compatible with the other chips in the system.

Severity: Error

Explanation: A system with incompatible chips is unsupported and may lead to agent restarts. To recover, remove the incompatible chips from the system.

Recommended Action: No action is required – this message is for information only.

UCAST_PACKET_RECEIVED: Received unknown unicast packet for lossless priority %s on the switch

Severity: Warning

Explanation: The switch received and dropped packet(s) addressed to an unknown unicast MAC address using a lossless priority.

Recommended Action: No action is required – this message is for information only.

2.182 UNSUPPORTED Messages

MULTICAST_FORWARDING_MODE: Unsupported multicast forwarding mode override set.

Severity: Warning

Explanation: Disabling multicast forwarding mode override.

Recommended Action: No action is required – this message is for information only.

2.183 UPDATE Messages

SIZE_EXCEEDED: BGP is unable to construct an update for route (%A/%d) as the BGP message would be too large to send. Attribute path length requires at least %u bytes.

Severity: Warning

Explanation: A BGP update message for given route was generated which is too large to send. BGP limits the maximum message size. If BGP generates an update message that exceeds this maximum message size, then the update message is not sent as the peer would reject it. This occurs when the length of the path attributes for the route is near to or exceeds the maximum message size.

Recommended Action: Check the route to see if it has any large attributes. A large ASPATH could indicate a ASPATH loop has formed. A router could also be attaching large unknown transitive attributes. Take steps to reduce the attribute length for affected routes.

2.184 UPRF Messages

HFEC_CONFLICT: Unicast RPF configuration conflicts with hierarchical FEC configuration

Severity: Warning

Explanation: Routed packets ingressing on unicast RPF enabled interfaces and egressing out of hierarchical next hops may not be forwarded as expected

Recommended Action: Configuring "ip hardware fib hierarchical next hop urpf" will resolve the conflict.

HFEC_NO_CONFLICT: Unicast RPF configuration no longer conflicts with hierarchical FEC configuration

Severity: Warning

Explanation: Routed packets ingressing on unicast RPF enabled interfaces will be forwarded as expected.

Recommended Action: No action is required – this message is for information only.

2.185 VLAN Messages

DYN_VLAN_ALLOCATION_FAILURE: Dynamic VLAN allocation failed for key %s

Severity: Error

Explanation: Dynamic VLAN allocation can fail if there are no free VLANs available in the configured internal VLAN range.

Recommended Action: Please consider updating the VLAN configuration including internal VLAN range to allow allocation of more dynamic VLANs.

DYN_VLAN_ALLOCATION_FAILURE_RECOVERED: Successful dynamic VLAN allocation for key %s with internal VLAN %s

Severity: Error

Explanation: Previously failed dynamic VLAN allocation is now successful

Recommended Action: No action is required – this message is for information only.

RECURSIVE_FLOODSET_EXPANDED: VLAN floodset expansion is disabled for VLAN %d since it is defined both as a source and a target.

Severity: Error

Explanation: If a VLAN has 'floodset expanded vlan' configured, it cannot be the target of another 'floodset expanded vlan' configuration.

Recommended Action: Remove the conflicting 'floodset expanded vlan' configurations.

RESERVED_INTERNAL_VLAN_ALLOCATION_FAILED: Internal VLAN allocation failed for interface %s

Severity: Error

Explanation: The number of internal VLANs required exceeds the maximum supported.

Recommended Action: Remove some routed ports to free up internal vlans and/or consider updating the VLAN Configuration including internal VLAN range to allow allocation of more internal VLANs.

RESERVED_INTERNAL_VLAN_ALLOCATION_RECOVERED: Internal VLAN allocation succeeded for interface %s

Severity: Error

Explanation: Previously failed internal vlan allocation is now successful

Recommended Action: No action is required – this message is for information only.

2.186 VMTRACERSESS Messages

ADD_VMENTRY: VM %s nic %s mac %s portgroup %s vlan %s switch %s host %s datacenter %s intf %s

Severity: Info

Explanation: A new VM has been added to the VM Tracer database

Recommended Action: No action is required – this message is for information only.

DEL_VMENTRY: VM %s nic %s mac %s portgroup %s vlan %s switch %s host %s datacenter %s intf %s

Severity: Info

Explanation: VM has been deleted from VM Tracer database

Recommended Action: No action is required – this message is for information only.

RESTART_CONFIG: Agent restart due to configuration change

Severity: Info

Explanation: VmTracerSess agent is restarting due to configuration change

Recommended Action: No action is required – this message is for information only.

2.187 VMWAREVI Messages

AGENT_RESTART: Agent restarting due to network error.

Severity: Error

Explanation: This error indicates that there was loss of connectivity after a session was successfully established and the agent is restarting.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

COMMUNICATION_ERROR: Loss of connectivity to vCenter.

Severity: Error

Explanation: This error indicates that there was loss of connectivity after a session was successfully established with vCenter.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CONNECT_FAILED: Failed to connect to vCenter. %s

Severity: Error

Explanation: This error indicates that the VMware VDS agent could not connect to vCenter.

Recommended Action: Check the configured URL in vmware vswitch session configuration and verify network connectivity to vCenter.

LOGIN_ERROR: Login to vCenter failed. %s

Severity: Error

Explanation: This error indicates that the VM Tracer agent could not login to vCenter using the configured username and password

Recommended Action: Check the configured credentials in the VMware vSwitch session configuration.

RPC_FAULT: The RPC %s failed.

Severity: Error

Explanation: This error indicates that the VM Tracer agent could not complete the RPC call to vCenter.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

VCENTER_CONNECTED: VmTracer agent successfully connected to vCenter %s.

Severity: Info

Explanation: The VmTracer agent was successfully able to establish connection with the vCenter

Recommended Action: No action is required – this message is for information only.

VMOTION_END: VM %s migrated to %s.

Severity: Info

Explanation: Vmotion completed on the VM

Recommended Action: No action is required – this message is for information only.

VMOTION_STARTED: VM %s in vmotion from %s to %s.

Severity: Info

Explanation: Vmotion triggered on the VM

Recommended Action: No action is required – this message is for information only.

2.188 VMWAREVS Messages

CONNECTION_FAILED: Failed to connect to VShield Manager.

Severity: Error

Explanation: This error indicates that the VM Tracer agent could not connect to VShield Manager.

Recommended Action: Check the configured URL in VM Tracer session configuration and verify network connectivity to VShield Manager.

CONNECTION_SUCCESSFUL: Successfully connected to VShield Manager.

Severity: Info

Explanation: The VM Tracer agent was able to successfully establish connection with the VShield Manager

Recommended Action: No action is required – this message is for information only.

LOGIN_ERROR: Login to VShield Manager failed.

Severity: Error

Explanation: This error indicates that the VM Tracer agent could not login to VShield Manager using the configured username and password.

Recommended Action: Check the configured credentials in the VM Tracer session configuration.

REST_FAULT: The REST request %s failed.

Severity: Error

Explanation: This error indicates that the VM Tracer agent could not complete the REST request to VShield Manager.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

SERVER: VM Tracer detected an internal error in VShield Manager.

Severity: Error

Explanation: This error indicates that the VM Tracer agent did not get a timely response to a request of VShield Manager. Check the health of the VShield Manager server.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

XML_FAULT: Unable to process XML from the REST request %s.

Severity: Error

Explanation: This error indicates that the VM Tracer agent could not process the xml returned from REST request of VShield Manager.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.189 VNI Messages

QOS_METER_BURST_UNIT_NOT_SUPPORTED: Unable to program the policer configuration %s on VLAN %d due to policer profile configuration burst unit mismatch.

Severity: Warning

Explanation: The specified policer configuration could not be programmed on the specified VLAN. The policer configuration on the specified VLAN remains unchanged

Recommended Action: Apply a policer configuration with burst units in bytes, Kbytes or Mbytes.

QOS_METER_RATE_UNIT_NOT_SUPPORTED: Unable to program the policer configuration %s on VLAN %d due to policer profile configuration rate unit mismatch.

Severity: Warning

Explanation: The specified policer configuration could not be programmed on the specified VLAN. The policer configuration on the specified VLAN remains unchanged.

Recommended Action: Apply a policer configuration with rate units in bytes per second(bps),Kbytes per second(Kbps) or Mbytes per second(Mbps).

2.190 VPLS Messages

PW_STATUS_CHANGE: VPLS %s neighbor %s pseudowire %s new state: %s

Severity: Info

Explanation: The state of the VPLS pseudowire has changed.

Recommended Action: No action is required – this message is for information only.

VLANBUNDLE_EVPN_INTEGRATION_CONFLICT: Conflict detected in the VLAN configuration of VPLS instance %s that is configured for integration with EVPN

Severity: Warning

Explanation: A VPLS instance that is configured for an integration with EVPN must have VLANs identical to that of the respective EVPN VLAN-aware MAC-VRF

Recommended Action: Update the configuration so that the VLANs configured under VPLS instance and the respective EVPN VLAN-aware MAC-VRF are the same.

VLANBUNDLE_EVPN_INTEGRATION_CONFLICT_RESOLVED: Conflict resolved in the VLAN configuration of VPLS instance %s that is configured for integration with EVPN

Severity: Warning

Explanation: A previously detected VLAN configuration conflict of VPLS instance has been resolved

Recommended Action: No action is required – this message is for information only.

2.191 VRF Messages

CREATED: VRF %s has been created with network namespace %s

Severity: Info

Explanation: The VRF instance has been successfully instantiated and is now active.

Recommended Action: No action is required – this message is for information only.

CREATE_RETRY: Another attempt to create network namespace %s for VRF %s will be made

Severity: Warning

Explanation: The network namespace corresponding to the VRF could not be created. Another attempt to create the network namespace will be made.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

DELETED: VRF %s has been deleted

Severity: Info

Explanation: The VRF instance has been successfully deleted.

Recommended Action: No action is required – this message is for information only.

DELETE_RETRY: Another attempt to delete the network namespace %s for VRF %s will be made (%s)

Severity: Warning

Explanation: The network namespace corresponding to the VRF could not be deleted. Another attempt to delete the network namespace will be made.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

MAP_OVERFLOW: A VRF table used internally to map VRF names to VRF identifiers has overflowed at %u values.

Severity: Error

Explanation: When this happens, the device may not be able to forward traffic in some VRFs. This is likely caused by configuring more VRFs than the device can support, so a possible solution would be to unconfigure some VRFs.

Recommended Action: This is a serious error. Contact your customer support representative with the contents of the message, and plan to be unable to use the system until the problem has been solved.

PROTOAGENT_CLEANUP_TIMEOUT: The protocol agent %s for VRF %s has not signaled cleanup-done yet. Proceeding with the removal of the VRF.

Severity: Warning

Explanation: Timed out waiting for the protocol agent to signal cleanup after the VRF was removed. The VRF cleanup will proceed without waiting for this.

Recommended Action: No action is required – this message is for information only.

STUCK_PROCESS: Process %s (pid %d) is still using the namespace for VRF %s, %s

Severity: Warning

Explanation: The process with the listed pid has not exited and is thus preventing the namespace for the VRF from being removed.

Recommended Action: No action is required – this message is for information only.

2.192 VRFLEAK Messages

ROUTE_FLAPPING: Leaking the route %s between VRFs %s (%d) and %s (%d) has exceeded flapping of %s load/unload per second and is now blocked

Severity: Error

Explanation: The specified route has exceeded the leak flapping threshold

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

2.193 VRRP Messages

ADDRESS_INCOMPATIBLE: VRRP MAC address %s in %s is incompatible with the most significant bytes of the currently programmed addresses %s. Addresses may only vary in the lower 3 bits.

Severity: Error

Explanation: VRRP MAC addresses may only differ in the lower 3 bits.

Recommended Action: Remove the incompatible VRRP groups.

ADDRESS_NOT_PROGRAMMED: VRRP MAC address %s in %s is not programmed due to exceeding the hardware limitation of 16 unique MAC addresses.

Severity: Error

Explanation: A maximum number of 16 unique virtual MAC addresses can be programmed.

Recommended Action: Remove the incompatible VRRP groups.

ADDRESS_RECOVERED: Successfully programmed VRRP MAC address %s in %s that was previously unable to fit in hardware.

Severity: Error

Explanation: Successfully programmed VRRP MAC address that previously was unable to fit in hardware.

Recommended Action: No action is required – this message is for information only.

ADDRESS_RESOURCE_NORMAL: Hardware resources are sufficient to enable routing for all VRRP groups.

Severity: Error

Explanation: The switch was able to program all VRRP groups in the hardware.

Recommended Action: No action is required – this message is for information only.

ADV_MISMATCH: Detected mismatched advertisement on %s and group %d from %s

Severity: Warning

Explanation: The Virtual IPs in VRRP advertisement does not match the configured VRRP virtual IPs

Recommended Action: No action is required – this message is for information only.

AND_MLAG_PEER_MAC_CONFIGURATION_CONFLICTING: VRRP configuration will be ignored because Mlag peerMac is configured.

Severity: Error

Explanation: VRRP and Mlag peerMac cannot be configured at the same time.

Recommended Action: Remove either the VRRP or Mlag peerMac configuration.

AND_MLAG_PEER_MAC_CONFIGURATION_NO_LONGER_CONFLICTING: %s configuration now in effect because %s was deconfigured.

Severity: Error

Explanation: VRRP and Mlag peerMac configuration no longer conflicting.

Recommended Action: No action is required – this message is for information only.

AND_VARP_CONFIGURATION_CONFLICTING: VRRP configuration will be ignored because VARP is configured.

Severity: Error

Explanation: VRRP and VARP cannot be configured at the same time.

Recommended Action: Remove either the VRRP or VARP configuration.

AND_VARP_CONFIGURATION_NO_LONGER_CONFLICTING: %s configuration now in effect because %s was deconfigured.

Severity: Error

Explanation: VRRP and VARP configuration no longer conflicting.

Recommended Action: No action is required – this message is for information only.

BFD_EVENT: %s Grp %d Taking over %s and transitioning to master

Severity: Notice

Explanation: The VRRP router is transitioning to master because the BFD session goes down

Recommended Action: No action is required – this message is for information only.

BFD_MISMATCH: %s Grp %d Bfd peer %s does not match master's address %s

Severity: Warning

Explanation: The Bfd peer configured in Cli does not match the master's Ip address in advertisement

Recommended Action: No action is required – this message is for information only.

CONFIGURED_ADDRESSES_COMPATIBLE: VRRP configuration is now compatible with hardware.

Severity: Error

Explanation: VRRP configuration is now compatible with hardware.

Recommended Action: No action is required – this message is for information only.

CONFIGURED_ADDRESSES_INCOMPATIBLE: Configured VRRP groups result in the following incompatible addresses: %s. Addresses may only vary in the lower 3 bits.

Severity: Error

Explanation: VRRP MAC addresses may only differ in the lower 3 bits.

Recommended Action: Remove the incompatible VRRP configuration.

CONFIGURED_ADDRESSES_LIMIT_EXCEEDED: Virtual routing configuration, including VARP, MLAG Peer MAC, and VRRP, exceeds the hardware limitation of 16 unique MAC addresses.

Severity: Error

Explanation: A maximum number of 16 unique virtual routing MAC addresses can be programmed.

Recommended Action: Remove the incompatible virtual routing configuration.

INCOMPATIBLE_WITH_MLAG_PEER_MAC: Ignoring VRRP MAC address %s in %s because Mlag peerMac is configured.

Severity: Error

Explanation: VRRP and Mlag peerMac cannot be configured at the same time.

Recommended Action: Remove either the VRRP or Mlag peerMac configuration.

INCOMPATIBLE_WITH_VARP: Ignoring VRRP MAC address %s in %s because VARP is configured.

Severity: Error

Explanation: VRRP and VARP cannot be configured at the same time.

Recommended Action: Remove either the VRRP or VARP configuration.

NOT_SUPPORTED: Forwarding engine doesn't support VRRP. %s

Severity: Error

Explanation: This forwarding engine doesn't support VRRP.

Recommended Action: Please contact customer support if you need VRRP support.

STATECHANGE: %s Grp %d state %s -> %s

Severity: Notice

Explanation: The VRRP router has changed state.

Recommended Action: No action is required – this message is for information only.

UNPROGRAMMED_ADDRESS_NO_LONGER_CONFIGURED: No longer need to program VRRP MAC address %s in %s that was previously unable to fit into hardware.

Severity: Error

Explanation: No longer need to program VRRP MAC address that was previously unable to fit into hardware.

Recommended Action: No action is required – this message is for information only.

2.194 VXLAN Messages

ARPREPLY_VARPMAC_NOHER_APPLIED: Disabling HER naked arp reply to VARP Mac for %s since other clients need it disabled

Severity: Notice

Explanation: There is another Vxlan client configured which requires arp reply to be disabled. Hence the overall status remains disabled.

Recommended Action: No action is required – this message is for information only.

ARPSNOOPING_APPLIED: Enabling vxlan arp snooping for %s since other clients need it enabled

Severity: Notice

Explanation: There is another Vxlan client configured which requires arp snooping to be enabled. Hence the overall status remains enabled.

Recommended Action: No action is required – this message is for information only.

ARP_PROXY_DISABLED_WITH_BRIDGED_ARP_LEARNING: ARP Proxy is disabled for %s when bridged ARP learning is also configured.

Severity: Warning

Explanation: This will result in the local bridged ARP learning not taking effect.

Recommended Action: To fix this problem, enable ARP Proxy: under 'router l2-vpn' configuration mode, remove the configured 'arp proxy prefix-list' or its associated 'deny 0.0.0.0/0' entry

CONTROLPLANE_DATAPATH_LEARNING_NOTAPPLIED: Not enabling control plane data path learning for %s since other clients need it disabled

Severity: Notice

Explanation: There is another Vxlan client configured which requires control plane datapath learning to be disabled. Hence the overall status remains disabled.

Recommended Action: No action is required – this message is for information only.

DATAPLANE_DATAPATH_LEARNING_NOTAPPLIED: Enabling data plane data path learning for %s since other clients need it enabled

Severity: Notice

Explanation: There is another Vxlan client configured which requires data plane datapath learning to be enabled. Hence the overall status remains enabled.

Recommended Action: No action is required – this message is for information only.

DECAPSULATION_DISABLED: VXLAN decapsulation has been disabled on %s because it carries non-default VRF traffic

Severity: Warning

Explanation: VXLAN decapsulation has been disabled on %s because it carries non-default VRF traffic

Recommended Action: To allow VXLAN decapsulation on interfaces that carry both default VRF and non-default VRF traffic issue the command 'vxlan decapsulation filter interface multiple-vrf disabled'. To entirely disable VRF-based VXLAN decapsulation filtering on this switch/router, configure 'vxlan decapsulation filter disabled'.

DECAPSULATION_ENABLED: VXLAN decapsulation has been enabled on %s

Severity: Info

Explanation: VXLAN decapsulation has been enabled on %s

Recommended Action: No action is required – this message is for information only.

DYNA_INVALID_PORT_NAME: Dynamic Port-VLAN pair from %s has been ignored: unknown interface name %s.

Severity: Warning

Explanation: A dynamic Port-VLAN pair has been ignored because the interface name is invalid.

Recommended Action: Verify the Port-VLAN pair from the source.

DYNA_VLANVNI_CONFLICT_CLI_VLAN: Dynamic VLAN to VNI mapping (%d to %d) from %s on VTI %s has been ignored because VLAN %d has explicitly been mapped to a different VNI (%d).

Severity: Info

Explanation: A dynamic VLAN to VNI mapping has been ignored because the specified VLAN has been mapped to a different VNI through a CLI configuration.

Recommended Action: Verify the dynamic VLAN to VNI mapping source or change the configured VLAN to VNI mapping. If you are deliberately overriding the dynamic configuration, no action is required

DYNA_VLANVNI_CONFLICT_CLI_VNI: Dynamic VLAN to VNI mapping (%d to %d) from %s on VTI %s has been ignored because VNI %d has explicitly been mapped by a different VLAN (%d).

Severity: Info

Explanation: A dynamic VLAN to VNI mapping has been ignored because the specified VNI has been mapped by a different VLAN through a CLI configuration.

Recommended Action: Verify the dynamic VLAN to VNI mapping source or change the configured VLAN to VNI mapping. If you are deliberately overriding the dynamic configuration, no action is required

DYNA_VLANVNI_CONFLICT_PEER: Dynamic VLAN to VNI mapping (%d to %d) from %s on VTI %s has been ignored because it conflicts with other dynamic mappings (%d to %d from %s).

Severity: Warning

Explanation: A dynamic VLAN to VNI mapping has been ignored because the specified VLAN has been dynamically mapped to a different VNI, or vice versa. All conflicting mappings from dynamic sources have been ignored.

Recommended Action: Verify the dynamic VLAN to VNI mapping sources, or configure the intended mapping directly using the CLI configuration for the VTI.

DYNA_VLANVNI_INVALID_CONFIG: Dynamic VLAN to VNI mapping from %s has been ignored: a %s VLAN config cannot be applied to %s port %s.

Severity: Warning

Explanation: A dynamic VLAN to VNI mapping has been ignored because we currently only support non-zero VLAN mappings on trunk ports and zero VLAN mappings on access ports.

Recommended Action: Verify the dynamic VLAN to VNI mapping source or change the switch port mode of the interface.

DYNA_VLANVNI_INVALID_CONFIG_INTERNAL: Dynamic VLAN to VNI mapping from %s has been ignored: VLAN %d has already been allocated internally.

Severity: Warning

Explanation: A dynamic VLAN to VNI mapping has been ignored because the specified VLAN has already been internally reserved by a routed port.

Recommended Action: Change the VLAN configured in the mapping.

DYNA_VLANVNI_INVALID_CONFIG_PEERLINK: Dynamic VLAN to VNI mapping from %s has been ignored: VLAN %d has already been allocated to the MLAG peer link SVI.

Severity: Warning

Explanation: A dynamic VLAN to VNI mapping has been ignored because the specified VLAN has already been allocated to the MLAG peer link SVI.

Recommended Action: Change the VLAN configured in the mapping.

DYNA_VNI_CONFLICT_REMOVED: Dynamic use of VNI %d from %s has been restored after previously being ignored due to a higher priority input from %s.

Severity: Info

Explanation: A dynamic use of VNI has been restored due to the higher priority source of configuration for that VNI has stopped using it.

Recommended Action: No action is necessary.

DYNA_VNI_CONFLICT_SOURCE: Dynamic use of VNI %d from %s has been ignored because it conflicts with other dynamic use of VNI %d from %s, which has higher priority.

Severity: Warning

Explanation: A dynamic use of VNI has been ignored because the specified VNI is used by a different, higher priority, source.

Recommended Action: Verify the configuration of VNIs in the CLI, in controllers, and in EVPN and make sure they use different VNIs.

INVALID_IPV6_MLAG_VTEP_ADDRESS: IPv6 MLAG VTEP address configuration has been ignored due to multiple IPv6 addresses on %s.

Severity: Error

Explanation: Configuration of the IPv6 MLAG VTEP address is valid when there is only 1 IPv6 address on VXLAN MLAG source interface

Recommended Action: Configure a single IPv6 address on the VXLAN MLAG source interface

INVALID_IPV6_VARP_VTEP_ADDRESS: IPv6 virtual VTEP address configuration has been ignored due to multiple IPv6 addresses on %s.

Severity: Error

Explanation: Configuration of the IPv6 virtual VTEP address is valid when there is only 1 IPv6 address on VXLAN virtual VTEP source interface

Recommended Action: Configure a single IPv6 address on the VXLAN virtual VTEP source interface

INVALID_IPV6_VTEP_ADDRESS: IPv6 VTEP address configuration has been ignored due to multiple IPv6 addresses on %s.

Severity: Error

Explanation: Configuration of the IPv6 VTEP address is valid when there is only 1 IPv6 address on VXLAN source interface

Recommended Action: Configure a single IPv6 address on the VXLAN source interface

INVALID_VARP_VTEP_ADDRESS: VARP VTEP configuration has been ignored due to multiple secondary IP addresses on %s.

Severity: Error

Explanation: Configuration of VARP VTEP address is valid when there is only 1 secondary IP address on VXLAN source-interface

Recommended Action: Configure only 1 secondary IP address on VXLAN source-interface

IPv6_UNDERLAY_UNSUPPORTED: VXLAN encapsulation using IPv6 VTEP addresses is not supported on this platform

Severity: Warning

Explanation: A configured IPv6 address on the VXLAN source interface has been ignored as VXLAN encapsulation using IPv6 VTEP addresses is not supported on this platform

Recommended Action: No action is required – this message is for information only.

L2_ECMP_NOTSUPPORTED: Cannot program MAC address %s in VLAN %d for a VTEP group because VXLAN L2 ECMP is not supported on this platform.

Severity: Warning

Explanation: VXLAN L2 ECMP is required to program EVPN VXLAN multihoming MAC addresses.

Recommended Action: Please remove EVPN VXLAN multihoming configuration.

LEARN_NOTALLOWED: Received VXLAN packet from VTEP %s for VNI %s, but that VTEP is not part of the set of trusted sources for dataplane learning.

Severity: Warning

Explanation: The switch is only doing VXLAN dataplane learning from VTEPs that have been configured as trusted using 'vxlan learn'.

Recommended Action: Please ensure that the VTEP configuration is consistent across all the switches. That might imply adding this VTEP to the vxlan learn list.

ND_PROXY_DISABLED_WITH_BRIDGED_NEIGHBOR_LEARNING: IPv6 ND Proxy is disabled for %s when bridged IPv6 neighbor learning is also configured.

Severity: Warning

Explanation: This will result in the local bridged neighbor learning not taking effect.

Recommended Action: To fix this problem, enable ARP Proxy: under 'router l2-vpn' configuration mode, remove the configured 'nd proxy prefix-list' or its associated 'deny ::0/0' entry

OVERLAY_IPv6_PKT_RECEIVED_ON_UNSUPPORTED_PLATFORM_DROPPED: A VXLAN encapsulated overlay IPv6 packet received on VTI %s by VxlanSwFwd on an unsupported platform has been dropped

Severity: Notice

Explanation: VXLAN encapsulated overlay IPv6 packets should only be handled by VxlanSwFwd agent on a supported platform

Recommended Action: No action is required – this message is for information only.

ROUTING_NOT_SUPPORTED: VXLAN routing on fabric card and line card combination is not supported.

Severity: Warning

Explanation: VXLAN routing is only enabled when all the fabric cards and line cards support VXLAN routing

Recommended Action: No action is required – this message is for information only.

SHARED_MAC_VARP_MAC_CONFLICT: MLAG Shared MAC configuration should not have the same value as VARP MAC configuration (%s)

Severity: Error

Explanation: Configuration of MLAG Shared MAC address is valid when it has a different value from the VARP MAC configuration

Recommended Action: Configure a MLAG Shared MAC that has a different value from the VARP MAC address

SOURCE_INTERFACE_IN_NON_DEFAULT_VRF: The source interface '%s' for VTI '%s' is in a non-default VRF (%s)

Severity: Error

Explanation: VXLAN source interfaces must be configured in the default VRF

Recommended Action: Configure the source interface to be in the default VRF

STATIC_VLANVNI_INVALID_CONFIG_INTERNAL: Configured VLAN to VNI mapping has been ignored: VLAN %d has already been allocated internally.

Severity: Warning

Explanation: A configured VLAN to VNI mapping has been ignored because the specified VLAN has already been internally reserved by a routed port.

Recommended Action: Change the VLAN configured in the mapping.

STATIC_VLANVNI_INVALID_CONFIG_PEERLINK: Configured VLAN to VNI mapping has been ignored: VLAN %d has already been allocated to the MLAG peer link SVI.

Severity: Warning

Explanation: A configured VLAN to VNI mapping has been ignored because the specified VLAN has already been allocated to the MLAG peer link SVI.

Recommended Action: Change the VLAN configured in the mapping.

VCS_IPMAC_SYNC_FROM_INCOMPATIBLE_MLAG_PRIMARY: Received a VXLAN Controller Service ARP or IPv6 Neighbor update (IP %s VRF %s) from the MLAG primary running an incompatible EOS version.

Severity: Warning

Explanation: The MLAG primary is running an incompatible EOS version. All VXLAN Controller Service ARP or IPv6 neighbor updates received from the primary will be discarded.

Recommended Action: To fix this problem, please run a compatible EOS version on MLAG Primary.

VTEP_TO_VTEP_BRIDGING_VARP_VTEP_UNSUPPORTED: VARP VTEP configuration and VTEP to VTEP bridging are not supported concurrently

Severity: Warning

Explanation: Either a virtual VTEP IP address can be configured or VTEP to VTEP bridging can be enabled, but not both simultaneously

Recommended Action: Remove either the secondary IP address on the VXLAN source interface or disable VTEP to VTEP bridging on the VXLAN tunnel interface.

2.195 VXLANSEC Messages

PKT_RECEIVED_ON_UNSUPPORTED_PLATFORM_DROPPED: A VXLAN encapsulated packet destined to VXLAN security UDP port of VTI %s received on unsupported platform has been dropped

Severity: Notice

Explanation: VXLAN encapsulated packets destined to VXLAN security UDP port would only be handled when VXLAN security is supported on the platform

Recommended Action: No action is required – this message is for information only.

2.196 XMPP Messages

CLIENT_AUTHEN_FAIL: Authentication failure connecting to %s:%s

Severity: Error

Explanation: The authentication credentials provided are rejected by the configured XMPP server.

Recommended Action: Confirm the authentication credentials configured for the XMPP server are correct by checking with your server administrator.

CLIENT_CONNECTED: Connected to %s:%s with JID %s

Severity: Info

Explanation: The XMPP client is connected to the named server using the specified Jabber ID (JID)

Recommended Action: No action is required – this message is for information only.

CLIENT_DISCONNECTED: Connection to %s:%s closed

Severity: Info

Explanation: The connection between XMPP client and server closed

Recommended Action: No action is required – this message is for information only.

DNS_LOOKUP_FAILURE: DNS lookup for XMPP server %s failed: %s

Severity: Error

Explanation: There was a problem resolving the XMPP server host name using the DNS.

Recommended Action: Confirm the XMPP server hostname exists in the DNS, that your switch has DNS name servers configured, and that they are reachable.

GROUP_FORBIDDEN: Forbidden from joining switch group %s by server %s:%s

Severity: Error

Explanation: The XMPP server has explicitly banned this switch from joining the switch group

Recommended Action: Check with the XMPP multi-user chat room (switch group) owner as to why they have banned this switch.

GROUP_NOT_AUTHORIZED: Incorrect password for switch group %s

Severity: Error

Explanation: The XMPP server did not authorize the XMPP client to join the switch group. Configure the correct password on the switch group for the group named in the error

Recommended Action: Check with the XMPP multi-user chat room (switch group) owner what the password should be, and configure that under 'management xmpp' on the appropriate 'switch-group' line

GROUP_REGISTRATION_REQUIRED: Members-only switch-group %s requires pre-registration

Severity: Error

Explanation: The switch group is configured members-only, and this switch is not on the member list. The owner must add the switch to the member list.

Recommended Action: Contact the XMPP multi-user chat room (switch group) owner and ask to have this switch added to the room member list

2.197 ZTP Messages

BLE_SUCCESS: BLE parameters received for %s

Severity: Info

Explanation: Zero Touch Provisioning successfully received over Bluetooth interface.

Recommended Action: No action is required – this message is for information only.

CANCEL: Cancelling Zero Touch Provisioning

Severity: Info

Explanation: Zero Touch Provisioning was cancelled at the CLI. The system will reboot with Zero Touch disabled.

Recommended Action: No action is required – this message is for information only.

CLOCK_SYNC_FAIL: Failed to synchronize the device clock using NTP due to an error. Error code: (%s) %s

Severity: Warning

Explanation: Zero Touch Provisioning failed to execute ntpd.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CLOCK_SYNC_SIGNALED: Failed to synchronize the device clock using NTP due to an uncaught signal. Signal code: %s

Severity: Warning

Explanation: Zero Touch Provisioning failed to execute ntpd.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CLOCK_SYNC_SKIPPED: Skip synchronizing device clock using NTP

Severity: Info

Explanation: Zero Touch Provisioning successfully synchronized the device clock using ntpd on a previous attempt.

Recommended Action: No action is required – this message is for information only.

CLOCK_SYNC_SUCCESS: Successfully synchronized the device clock using NTP

Severity: Info

Explanation: Zero Touch Provisioning successfully synchronized the device clock using ntpd.

Recommended Action: No action is required – this message is for information only.

CLOCK_SYNC_TIMEOUT: Timed out trying to synchronize the device clock using NTP after %u seconds

Severity: Warning

Explanation: Zero Touch Provisioning timed out after waiting long enough for NTP to complete clock synchronization.

Recommended Action: No action is required – this message is for information only.

CLOUDVISION_ENROLLMENT_FAIL: CloudVision enrollment process exited with an error: (%s) %s

Severity: Warning

Explanation: Zero Touch Provisioning failed to execute TerminAttr.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CLOUDVISION_ENROLLMENT_START: Attempting enrollment into CloudVision at endpoint: %s

Severity: Info

Explanation: Zero Touch Provisioning is executing TerminAttr to enroll into CloudVision.

Recommended Action: No action is required – this message is for information only.

CLOUDVISION_ENROLLMENT_SUCCESS: Successfully enrolled switch into CloudVision

Severity: Info

Explanation: Zero Touch Provisioning successfully enrolled the switch into CloudVision via TerminAttr

Recommended Action: No action is required – this message is for information only.

CLOUDVISION_ENROLLMENT_TIMEOUT: CloudVision timed out trying to enroll after %u seconds

Severity: Warning

Explanation: Zero Touch Provisioning timed out after waiting long enough for TerminAttr to complete enrollment.

Recommended Action: No action is required – this message is for information only.

CLOUDVISION_REDIRECTOR_CONTACT_FAIL: Failed to contact CloudVision's Redirector service

Severity: Warning

Explanation: Zero Touch Provisioning over arista.io was unsuccessful since connection with redirector service failed. To cancel Zero Touch Provisioning, type `zerotouch cancel` at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CLOUDVISION_REDIRECTOR_FAIL: CloudVision Redirector service failed to provide any cluster assignment

Severity: Warning

Explanation: Zero Touch Provisioning over arista.io was unsuccessful since CloudVision's redirector service failed to provide any cluster assignment. To cancel Zero Touch Provisioning, type `zerotouch cancel` at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CLOUDVISION_REDIRECTOR_SUCCESS: Cluster assignment from CloudVision Redirector service successful:
%s

Severity: Info

Explanation: Zero Touch Provisioning successfully received a cluster assignment from CloudVision's Redirector service.

Recommended Action: No action is required – this message is for information only.

CONFIG_DOWNLOAD: Attempting to download the startup-config from %s

Severity: Info

Explanation: Zero Touch Provisioning is attempting to download the startup-config or a config script from the URL specified in the received DHCP response. To cancel Zero Touch Provisioning, type `zerotouch cancel` at the CLI.

Recommended Action: No action is required – this message is for information only.

CONFIG_DOWNLOAD_FAIL: Failed to download the startup-config from %s. Error: %s

Severity: Warning

Explanation: Zero Touch Provisioning failed to download the startup-config or a config script from the URL specified in the received DHCP response. Check the URL specified in the DHCP response. To cancel Zero Touch Provisioning, type `zerotouch cancel` at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

CONFIG_DOWNLOAD_SUCCESS: Successfully downloaded %s from %s

Severity: Info

Explanation: Zero Touch Provisioning successfully downloaded the startup-config or a config script from the URL specified in the received DHCP response.

Recommended Action: No action is required – this message is for information only.

CONFIG_DOWNLOAD_TIMEOUT: Timed out trying to download the startup-config or a config script from %s after %u seconds

Severity: Warning

Explanation: Zero Touch Provisioning timed out trying to download the startup-config or a config script from the URL specified in the received DHCP response. To cancel Zero Touch Provisioning, type `zerotouch cancel` at the CLI.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

DHCLIENT_FAIL: Failed to execute dhclient(%s) due to an error. Error code: (%s) %s

Severity: Warning

Explanation: Zero Touch Provisioning failed to execute dhclient.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

DHCP_NO_INTERFACES_AVAILABLE: No interfaces available to send DHCPv4 or DHCPv6 requests

Severity: Warning

Explanation: Zero Touch Provisioning failed to detect any interfaces upon which to send DHCPv4/DHCPv6 requests.

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

DHCPv4_QUERY: Sending DHCPv4 request with %s on %s (option %s)

Severity: Info

Explanation: Zero Touch Provisioning is trying to discover a DHCPv4 server on the network. Zero Touch Provisioning will only accept a DHCPv4 response with a valid DHCPv4 option 67/143 present. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: No action is required – this message is for information only.

DHCPv4_QUERY_FAIL: Failed to get a valid DHCPv4 response (option %s)

Severity: Warning

Explanation: Zero Touch Provisioning failed to get a DHCPv4 response with a valid DHCPv4 option 67/143 answer from a server on the network.

Recommended Action: Check your DHCPv4 server for proper Zero Touch Provisioning configuration. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

DHCPv4_SUCCESS: DHCPv4 response received on %s (option %s)

Severity: Info

Explanation: Zero Touch Provisioning successfully received a DHCPv4 response with a valid DHCPv4 option 67/143 present from a server on the network.

Recommended Action: No action is required – this message is for information only.

DHCPv6_QUERY: Sending DHCPv6 request on %s (option %s)

Severity: Info

Explanation: Zero Touch Provisioning is trying to discover a DHCPv6 server on the network. Zero Touch Provisioning will only accept a DHCPv6 response with a valid DHCPv6 option 59/136 present. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: No action is required – this message is for information only.

DHCPv6_QUERY_FAIL: Failed to get a valid DHCPv6 response (option %s)

Severity: Warning

Explanation: Zero Touch Provisioning failed to get a DHCPv6 response with a valid DHCPv6 option 59/136 answer from a server on the network.

Recommended Action: Check your DHCPv6 server for proper Zero Touch Provisioning configuration. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

DHCPv6_SUCCESS: DHCPv6 response received on %s (option %s)

Severity: Info

Explanation: Zero Touch Provisioning successfully received a DHCPv6 response with a valid DHCPv6 option 59/136 present from a server on the network.

Recommended Action: No action is required – this message is for information only.

EXEC_SCRIPT: Executing the downloaded config script

Severity: Info

Explanation: Zero Touch Provisioning is executing the downloaded config script.

Recommended Action: No action is required – this message is for information only.

EXEC_SCRIPT_FAIL: Config script exited with an error. Error code: (%s) %s

Severity: Warning

Explanation: Zero Touch Provisioning failed to execute the downloaded config script. This usually indicates a problem executing the config script or the config script exiting with a non zero return code.

Recommended Action: Check the config script for any errors. If the problem persists, contact your support representative. Otherwise, no action is required.

EXEC_SCRIPT_SINGALED: Config script exited with an uncaught signal. Signal code: %s

Severity: Warning

Explanation: Zero Touch Provisioning failed to execute the downloaded config script. This usually indicates a problem executing the config script.

Recommended Action: Check the config script for any errors. If the problem persists, contact your support representative. Otherwise, no action is required.

EXEC_SCRIPT_SUCCESS: Successfully executed the downloaded config script

Severity: Info

Explanation: Zero Touch Provisioning successfully executed the downloaded config script.

Recommended Action: No action is required – this message is for information only.

EXEC_SCRIPT_TIMEOUT: Timed out executing the downloaded config script after %u seconds

Severity: Warning

Explanation: Zero Touch Provisioning timed out after waiting long enough for the downloaded config script to complete execution. This usually indicates a problem with the config script.

Recommended Action: Check the config script for any errors. If the problem persists, contact your support representative. Otherwise, no action is required.

INIT: No startup-config found, starting Zero Touch Provisioning

Severity: Info

Explanation: No startup-config was found on flash, the system has entered Zero Touch Provisioning mode and is actively trying to download the startup-config from a remote system. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: No action is required – this message is for information only.

INTERFACE_SPEED: Setting interface speed to %s for %s

Severity: Info

Explanation: Set the global speed on all capable interfaces.

Recommended Action: No action is required – this message is for information only.

MALFORMED_URL: Unable to parse the bootstrap URL: %s

Severity: Error

Explanation: Zero Touch Provisioning is unable to parse the URL into components

Recommended Action: If the problem persists, contact your support representative. Otherwise, no action is required.

RELOAD: Rebooting the system

Severity: Info

Explanation: Zero Touch Provisioning is rebooting the system after either a successful configuration of the system or because Zero Touch Provisioning was cancelled at the CLI

Recommended Action: No action is required – this message is for information only.

RETRY: Retrying Zero Touch Provisioning from the beginning (attempt %d)

Severity: Info

Explanation: Zero Touch Provisioning is retrying from the beginning. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: No action is required – this message is for information only.

STARTUP_FILE_SYNC_FAIL: Failed to Synchronize the startup-config file with the standby rebooting the Active and Standby.

Severity: Info

Explanation: Failed to Synchronize the startup-config file with the standby rebooting the Active and Standby.

Recommended Action: No action is required – this message is for information only.

STARTUP_FILE_SYNC_TIMEOUT: Waiting on File Replicator to synchronize the startup-config with the Standby.

Severity: Info

Explanation: Waiting on File Replicator to synchronize the startup-config with the Standby.

Recommended Action: No action is required – this message is for information only.

STATELESS_DHCPv6_QUERY: Sending stateless DHCPv6 request on %s (option %s)

Severity: Info

Explanation: Zero Touch Provisioning is trying to discover a DHCPv6 server on the network. Zero Touch Provisioning will only accept a DHCPv6 response with a valid DHCPv6 option 59/136 present. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

Recommended Action: No action is required – this message is for information only.

STATELESS_DHCPv6_QUERY_FAIL: Failed to get a valid stateless DHCPv6 response (option %s)

Severity: Warning

Explanation: Zero Touch Provisioning failed to get a stateless DHCPv6 response with a valid DHCPv6 option 59/136 answer from a server on the network.

Recommended Action: Check your DHCPv6 server for proper Zero Touch Provisioning configuration. To cancel Zero Touch Provisioning, type zerotouch cancel at the CLI.

STATELESS_DHCPv6_SUCCESS: DHCPv6 response with stateless configuration parameters received on %s (option %s)

Severity: Info

Explanation: Zero Touch Provisioning successfully received a stateless DHCPv6 response with a valid DHCPv6 option 59/136 present from a server on the network.

Recommended Action: No action is required – this message is for information only.

TLS_INVALID_FILE: Unable to verify %s: %s

Severity: Info

Explanation: The certificate or key could not be verified as a valid file.

Recommended Action: No action is required – this message is for information only.

TLS_SERVER: Using root of trust certificate at %s to connect to %s

Severity: Info

Explanation: Zero Touch will use root of trust certificate to authenticate the server URI.

Recommended Action: No action is required – this message is for information only.

USB_URL: Using bootstrap URL %s obtained from the USB

Severity: Info

Explanation: Zero Touch Provisioning has discovered a bootstrap URL in the USB and will thus ignore the bootfile/servername, if obtained via DHCP.

Recommended Action: No action is required – this message is for information only.