



# APPENDIX **C**

## Error and Event Messages

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# Conventions

System error messages are displayed in the format shown in [Table C-1](#).

**Table C-1** System Error Message Format

Message Component	Description	Example
Error identifier	A string categorizing the error.	STATION-ROLE
Software component	A string identifying the software component of the error.	AUTO_INSTALL
Severity Level	A numerical string indicating the severity of the error.	0-LOG-EMERG—emergency situation, nothing is functional 1-LOG-ALERT—alerts user to a very serious problem 2-LOG-CRIT—warns of a possible serious critical error 3-LOG-ERR—warning of error condition, most features functional; user should exercise care 4-LOG-WARNING—warning that user can ignore if they prefer 5-LOG-NOTICE—notice that may be of concern to user 6-LOG-INFO—informational (not serious) 7-LOG-DEBUG—debug information (not serious)
Action Flags	Internal to the code for which additional action is displayed.	0—No action flag MSG-TRACEBACK—includes traceback with message MSG-PROCESS—includes process information with message MSG-CLEAR—indicates condition had cleared MSG-SECURITY—indicates as security message MSG-NOSCAN—suppresses EEM pattern screening
%d	An integer number.	2450
%e	A MAC address.	000b.fcff.b04e
%s	A message string which provides more detail of the error.	“Attempt to protect port 1640 failed.”
%x	A hexadecimal number.	0x001

# Software Auto Upgrade Messages

**Error Message** SW-AUTO-UPGRADE-2-FATAL\_FAILURE: "Attempt to upgrade software failed, software on flash may be deleted. Please copy software into flash."

**Explanation** Auto upgrade of the software failed. The software on the flash might have been deleted. Copy software into the flash.

**Recommended Action** Copy software before rebooting the unit.

**Error Message** SW-AUTO-UPGRADE-7-DHCP\_CLIENT\_FAILURE: "%s": Auto upgrade of the software failed."

**Explanation** Auto upgrade of the software failed.

**Recommended Action** Make sure that the DHCP client is running.

**Error Message** SW-AUTO-UPGRADE-7-DHCP\_SERVER\_FAILURE: "%s": Auto upgrade of the software failed."

**Explanation** Auto upgrade of the software failed.

**Recommended Action** Make sure that the DHCP server is configured correctly.

**Error Message** SW-AUTO-UPGRADE-7\_BOOT\_FAILURE: "%s": Auto upgrade of the software failed."

**Explanation** Auto upgrade of the software failed.

**Recommended Action** Reboot the unit. If the message appears again, copy the error message exactly as it appears and report it to your technical support representative.

**Error Message** DOT11-4-UPGRADE: "Send your company name and the following report to migrateapj52w52@cisco.com." The following AP has been migrated from J(j52) to U(w52) Regulatory Domain:  
AP name AP Model Ethernet MAC  
%s %s %e \U\Regulatory Doman

**Explanation** A Japan regulatory domain field upgrade from J to U has been accomplished.

**Recommended Action** None

**Error Message** AUTO-INSTALL-4-STATION\_ROLE: "%s": The radio is operating in automatic install mode."

**Explanation** The radio is operating in automatic install mode.

**Recommended Action** Use the **station-role** configuration interface command to configure the radio for a role other than install mode.

**Error Message** AUTO-INSTALL-4-IP\_ADDRESS\_DHCP: "The radio is operating in automatic install mode and has set ip address dhcp."

**Explanation** The radio is operating in automatic install mode and is configured to receive an IP address through DHCP.

**Recommended Action** Use the **station-role** configuration interface command to configure the radio for a role other than install mode.

**Error Message** AUTO-INSTALL-6\_STATUS: "%s" %s. RSSI=-%d dBm.: The radio is operating in install mode."

**Explanation** The radio is operating in automatic install mode.

**Recommended Action** Use the **station-role** configuration interface command to configure the radio for a role other than install mode.

## Association Management Messages

**Error Message** DOT11-3-BADSTATE: "%s %s ->%s."

**Explanation** 802.11 association and management uses a table-driven state machine to keep track and transition an association through various states. A state transition occurs when an association receives one of many possible events. When this error occurs, it means that an association received an event that it did not expect while in this state.

**Recommended Action** The system can continue but may lose the association that generates this error. Copy the message exactly as it appears and report it to your technical service representative.

**Error Message** DOT11-6-ASSOC: "Interface %s, Station %s e% %s KEY\_MGMT (%s), MSGDEF\_LIMIT\_MEDIUM."

**Explanation** The indicated station associated to an access point on the indicated interface.

**Recommended Action** None.

**Error Message** DOT11-6-ADD: "Interface %s, Station %e associated to parent %e."

**Explanation** The indicated station associated to the parent access point on the indicated interface.

**Recommended Action** None.

**Error Message** DOT11-6-DISASSOC: "Interface %s, Deauthenticating Station %e %s, MSGDEF\_LIMIT\_MEDIUM."

**Explanation** The indicated station disassociated from the access point on the indicated interface.

**Recommended Action** None.

**Error Message** DOT11-6-ROAMED: "Station %e roamed to %e."

**Explanation** The indicated station roamed to the indicated new access point.

**Recommended Action** None.

**Error Message** DOT11-4-ENCRYPT\_MISMATCH: "Possible encryption key mismatch between interface %s and station %e."

**Explanation** The encryption setting of the indicated interface and indicated station may be mismatched.

**Recommended Action** Check the encryption configuration of this interface and the failing station to ensure that the configurations match.

## Unzip Messages

**Error Message** SOAP-4-UNZIP\_OVERFLOW: "Failed to unzip %s, exceeds maximum uncompressed html size."

**Explanation** The HTTP server cannot retrieve a compressed file in response to an HTTP GET request because the file is too large for the buffers used in the uncompression process.

**Recommended Action** Make sure that the file is a valid HTML page. If it is, you need to copy an uncompressed version of the file into Flash to retrieve it through HTTP.

## 802.11 Subsystem Messages

**Error Message** DOT11-6-FREQ\_USED: "Interface %s, frequency %d selected."

**Explanation** After scanning for an unused frequency, the indicated interface selected the displayed frequency.

**Recommended Action** None.

**Error Message** DOT11-4-NO-VALID\_INFRA\_SSID: "No infrastructure SSID configured. %s not started."

**Explanation** No infrastructure SSID was configured and the indicated interface was not started.

**Recommended Action** Add at least one infrastructure SSID to the radio configuration.

**Error Message** DOT11-4-VERSION\_UPGRADE: "Interface %d, upgrading radio firmware."

**Explanation** When starting the indicated interface, the access point found the wrong firmware version. The radio will be loaded with the required version.

**Recommended Action** None.

**Error Message** DOT11-2-VERSION\_INVALID: "Interface %d, unable to find required radio version %x.%x/ %d/

**Explanation** When trying to re-flash the radio firmware on the indicated interface, the access point recognized that the indicated radio firmware packaged with the Cisco IOS software had the incorrect version.

**Recommended Action** None.

**Error Message** DOT11-3-RADIO\_OVER\_TEMPERATURE: "Interface %s Radio over temperature detected."

**Explanation** The radio's internal temperature exceeds maximum limits on the indicated radio interface.

**Recommended Action** Take steps necessary to reduce the internal temperature. These steps will vary based on your specific installation.

**Error Message** DOT11-6-RADIO\_TEMPERATURE\_NORMAL: "Interface %s radio temperature returned to normal."

**Explanation** The radio's internal temperature has returned to normal limits on the indicated radio interface.

**Recommended Action** None.

**Error Message** DOT11-3-TX\_PWR\_OUT\_OF\_RANGE: "Interface %s Radio transmit power out of range."

**Explanation** The transmitter power level is outside the normal range on the indicated radio interface.

**Recommended Action** Remove unit from the network and service.

**Error Message** DOT11-3-RADIO\_RF\_LO: "Interface %s Radio cannot lock RF freq."

**Explanation** The radio phase lock loop (PLL) circuit is unable to lock the correct frequency on the indicated interface.

**Recommended Action** Remove unit from network and service.

**Error Message** DOT11-3-RADIO\_IF\_LO: "Interface %s Radio cannot lock IF freq."

**Explanation** The radio intermediate frequency (IF) PLL is unable to lock the correct frequency on the indicated interface.

**Recommended Action** Remove unit from network and service.

**Error Message** DOT11-6-FREQ\_SCAN: "Interface %s Scanning frequencies for %d seconds."

**Explanation** Starting a scan for a least congested frequency on the interface indicated for a the time period indicated.

**Recommended Action** None.

**Error Message** DOT11-2-NO\_CHAN\_AVAIL: "Interface %s, no channel available."

**Explanation** No frequency is available, likely because RADAR has been detected within the previous 30 minutes.

**Recommended Action** None.

**Error Message** DOT11-6-CHAN\_NOT\_AVAIL: "DFS configured frequency %d Mhz unavailable for %d minute(s)."

**Explanation** Radar has been detected on the current channel. Dynamic Frequency Selection (DFS) regulations require no transmission for 30 seconds on the channel.

**Recommended Action** None.

**Error Message** DOT11-6-DFS\_SCAN\_COMPLETE: "DFS scan complete on frequency %d MHz."

**Explanation** The device has completed its Dynamic Frequency Scan (DFS) frequency scanning process on the displayed frequency.

**Recommended Action** None.

**Error Message** DOT11-6-DFS\_SCAN\_START: "DFS: Scanning frequency %d MHz for %d seconds."

**Explanation** The device has begun its DFS scanning process.

**Recommended Action** None.

**Error Message** DOT11-6-DFS\_TRIGGERED: "DFS: triggered on frequency %d MHz."

**Explanation** DFS has detected RADAR signals on the indicated frequency.

**Recommended Action** None. The channel will be placed on the non-occupancy list for 30 minutes and a new channel will be selected.

**Error Message** DOT11-4-DFS\_STORE\_FAIL: "DFS: could not store the frequency statistics."

**Explanation** A failure occurred writing the DFS statistics to flash.

**Recommended Action** None.

**Error Message** DOT11-4-NO\_SSID: "No SSIDs configured, %d not started."

**Explanation** All SSIDs were deleted from the configuration. At least one must be configured for the radio to run.

**Recommended Action** Configure at least one SSID on the access point.

**Error Message** DOT11-4-NO\_SSID\_VLAN: "No SSID with VLAN configured. %s not started."

**Explanation** No SSID was configured for a VLAN. The indicated interface was not started.

**Recommended Action** At least one SSID must be configured per VLAN. Add at least one SSID for the VLAN on the indicated interface.

**Error Message** DOT11-4-NO\_MBSSID\_VLAN: "No VLANs configured in MBSSID mode. %s not started."

**Explanation** No VLAN configured in MBSSID mode. The indicated interface was not started.

**Recommended Action** Add at least one SSID with the VLAN on the indicated interface configuration.

**Error Message** DOT11-4-NO\_MBSSID\_SHR\_AUTH: "More than 1 SSID with shared authentication method in non-MBSSID mode % is down".

**Explanation** Not more than 1 SSID can have shared authentication method when MBSSID is not enabled.

**Recommended Action** Remove Dot11Radio radio interface or change authentication mode for SSID to open configuration.

**Error Message** DOT114-NO\_MBSSID\_BACKUP\_VLAN: "Backup VLANs cannot be configured if MBSSID is not enabled. %s not started."

**Explanation** To enable a backup VLAN, MBSSID mode should be configured.

**Recommended Action** Configure MBSSID on the device.

**Error Message** IF-4-MISPLACED\_VLAN\_TAG: "Detected a misplaced VLAN tag on source Interface %. Dropping packet."

**Explanation** Received an 802.1Q VLAN tag was detected on the indicated interface which could not be parsed correctly. The received packet was encapsulated or deencapsulated incorrectly.

**Recommended Action** None

**Error Message** DOT11-2-FW\_LOAD\_NET: "Interface %s cannot load on boot. Place image in flash root directory and reload."

**Explanation** The radio images cannot be loaded from a network when the access point boots.

**Recommended Action** Place the image on the root directory of the flash file system.

**Error Message** DOT11-4-FW\_LOAD\_DELAYED: "Interface %s, network filesys not ready. Delaying firmware (%s) load."

**Explanation** The network filesystem was not running or not ready when trying to flash new firmware into the indicated interface. Loading the identified firmware file has been delayed.

**Recommended Action** Make sure the network is up and ready before attempting to reflash the new firmware.

**Error Message** DOT11-3-FLASH\_UNKNOWN\_RADIO: "Interface %s has an unknown radio."

**Explanation** The radio type could not be determined when the user attempted to flash new firmware into the indicated interface.

**Recommended Action** Reboot the system and see if the firmware upgrade completes.

**Error Message** DOT11-4-UPLINK\_ESTABLISHED: "Interface %s associated to AP %s %e %s."

**Explanation** The indicated repeater has associated to the indicated root access point. Clients can now associate to the indicated repeater and traffic can pass.

**Recommended Action** None.

**Error Message** DOT11-2-UPLINK\_FAILED: "Uplink to parent failed: %s."

**Explanation** The connection to the parent access point failed for the displayed reason. The uplink will stop its connection attempts.

**Recommended Action** Try resetting the uplink interface. Contact Technical Support if the problem persists.

**Error Message** DOT11-4-CANT\_ASSOC: "Interface %, cannot associate %s."

**Explanation** The indicated interface device could not associate to an indicated parent access point.

**Recommended Action** Check the configuration of the parent access point and this unit to make sure there is a match.

**Error Message** DOT11-4-CANT\_ASSOC: "Interface Dot11Radio 0, cannot associate."

**Explanation** Parent does not support client MFP. This error message displays on the access point only in workgroup bridge, repeater, or non-root bridge mode and is seen if the WGB, repeater, or non-root is configured with Client MFP SD required (or mandatory) but root Client MFP is disabled.

**Recommended Action** Check the configuration of the parent access point and this unit to make sure there is a match.

**Error Message** DOT11-2-PROCESS\_INITIALIZATION\_FAILED: "The background process for the radio could not be started: %s)

**Explanation** The initialization process used by the indicated interface failed for some reason, possibly a transient error.

**Recommended Action** Perform a reload of the access point. If this fails to rectify the problem, perform a power cycle. If this still fails, try downgrading the access point firmware to the previous version.

**Error Message** DOT11-2-RADIO\_HW\_RESET: "Radio subsystem is undergoing hardware reset to recover from problem."

**Explanation** An unrecoverable error occurred that could not be resolved by a soft reset.

**Recommended Action** None.

**Error Message** DOT11-2-RESET\_RADIO: "Interface %s, Radio %s, Trying hardware reset on radio."

**Explanation** Using a software reset to start a radio failed. Trying a hardware reset which will reset all radios on the unit.

**Recommended Action** None.

**Error Message** DOT11-4-MAXRETRIES: "Packet to client %e reached max retries, removing the client."

**Explanation** The maximum packet send retry limit has been reached and the client is being removed. This error message indicates that the access point attempts to poll the client a certain number of times, but does not receive a response. Therefore, the client is removed from the association table. This issue is commonly seen when the client and access point are attempting to communicate in a noisy RF environment.

**Recommended Action** To resolve this issue, see if a snapshot reveals noise in the radio spectrum by trying to run a carrier busy test on the AP. Attempt to alleviate any unwanted noise. For more information, see the ["Performing a Carrier Busy Test" procedure on page 6-32](#). If there are several access points in the same area, they could be overlapping the channel signal or with any other wireless device in the surrounding area. Change the channels under Network Interfaces and select Radio-802.11. There are three non-overlapping channels: 1, 6, and 11.

**Error Message** DOT11-4-RM\_INCAPABLE: "Interface %s

**Explanation** Indicated interface does not support the radio management feature.

**Recommended Action** None.

**Error Message** DOT11-4-RM\_INCORRECT\_INTERFACE: "Invalid interface, either not existing or non-radio."

**Explanation** A radio management request discovered that the interface either does not exist or is not a radio interface.

**Recommended Action** None.

**Error Message** DOT11-3-POWERS\_INVALID: "Interface %s, no valid power levels available."

**Explanation** The radio driver found no valid power level settings.

**Recommended Action** Investigate and correct the power source and settings.

**Error Message** DOT11-4-RADIO\_INVALID\_FREQ: "Operating frequency (%d) invalid - performing a channel scan."

**Explanation** The indicated frequency is invalid for operation. A channel scan is being performed to select a valid frequency.

**Recommended Action** None.

**Error Message** DOT11-4-RADIO\_NO\_FREQ: "Interface &s, all frequencies have been blocked, interface not started."

**Explanation** The frequencies set for operation are invalid and a channel scan is being forced in order to select a valid operating frequency.

**Recommended Action** None.

**Error Message** DOT11-4-BCN\_BURST\_NO\_MBSSID: "Beacon burst mode is enabled but MBSSID is not enabled, %s is down."

**Explanation** Beacon burst mode can only be enabled when MBSSID is enabled on the indicated interface.

**Recommended Action** Enable the MBSSID or disable beacon bursting on the indicated interface.

**Error Message** DOT11-4-BCN\_BURST\_TOO\_MANY\_DTIMS: "Beacon burst mode is enabled and there are too many different DTIM periods defined. %s is down."

**Explanation** Beacon burst mode can only support up to 4 unique DTIM values, each with a maximum of 4 BSSes.

**Recommended Action** Change the number of unique DTIMs on the SSIDs configured for the interface to a more reasonable set of values.

**Error Message** DOT11-2-RADIO\_INITIALIZATION\_ERROR: "The radio subsystem could not be initialized (%s)."

**Explanation** A critical error was detected while attempting to initialize the radio subsystem.

**Recommended Action** Reload the system.

**Error Message** DOT11-4-UPLINK\_NO\_ID\_PWD: "Interface %s, no username/password supplied for uplink authentication."

**Explanation** The user failed to enter a username and/or password.

**Recommended Action** Enter the username and/or password and try again.

**Error Message** DOT11-5-NO\_IE\_CFG: "No IEs configured for %s (ssid index %u)."

**Explanation** When attempting to apply a beacon or probe response to the radio, the beacon or probe was undefined on the indicated SSID index.

**Recommended Action** Check the IE configuration.

**Error Message** DOT11-4-FLASHING\_RADIO: "Interface %s, flashing radio firmware (%s)."

**Explanation** The indicated interface radio has been stopped to load the indicated new firmware.

**Recommended Action** None.

**Error Message** DOT11-4-LOADING\_RADIO: "Interface %s, loading the radio firmware (%s)."

**Explanation** The indicated interface radio has been stopped to load new indicated firmware.

**Recommended Action** None.

**Error Message** DOT11-2-NO\_FIRMWARE: "Interface %s, no radio firmware file (%s) was found."

**Explanation** When trying to flash new firmware, the file for the radio was not found in the Flash file system. Or, the IOS on the access point is corrupt.

**Recommended Action** The wrong image has been loaded into the unit. Locate the correct image based on the type of radio used. To resolve this issue you may have to reload the access point with a new Cisco IOS image. Instructions for reloading an image are found in ["Working with Software Images" section on page 20-18](#).

If the IOS on the access point is corrupt, reload the access point image using the Mode button method. Refer to the ["Using the MODE Button" section on page 22-16](#).

**Error Message** DOT11-2-BAD\_FIRMWARE: "Interface %s, radio firmware file (%s) is invalid."

**Explanation** When trying to Flash new firmware into the indicated interface the indicated radio firmware file was found to be invalid.

**Recommended Action** Make sure the correct firmware image file is located in the place where the unit expects to find it.

**Error Message** DOT11-2-RADIO\_FAILED: "Interface %s, failed - %s."

**Explanation** The radio driver on the indicated interface found a severe error and is shutting down for the indicated reason.

**Recommended Action** None.

**Error Message** DOT11-4-FLASH\_RADIO\_DONE: "Interface %s, flashing radio firmware completed."

**Explanation** The indicated interface radio firmware flash is complete, and the radio will be restarted with the new firmware.

**Recommended Action** None.

**Error Message** DOT11-4-UPLINK\_LINK\_DOWN: "Interface %s, parent lost: %s."

**Explanation** The connection to the parent access point on the indicated interface was lost for the reason indicated. The unit will try to find a new parent access point.

**Recommended Action** None.

**Error Message** DOT11-4-CANT\_ASSOC: Cannot associate: [chars]

**Explanation** The unit could not establish a connection to a parent access point for the displayed reason.

**Recommended Action** Verify that the basic configuration settings (SSID, WEP, and others) of the parent access point and this unit match.

**Error Message** DOT11-4-CLIENT\_NOT\_FOUND: "Client was not found."

**Explanation** Client was not found while checking mic.

**Recommended Action** None.

**Error Message** DOT11-4-MAXRETRIES: Packet to client [mac] reached max retries, remove the client

**Explanation** A packet sent to the client has not been successfully delivered many times, and the max retries limit has been reached. The client is deleted from the association table.

**Recommended Action** None.

**Error Message** DOT11-4-BRIDGE\_LOOP: "Bridge loop detected between WGB %e and device %e."

**Explanation** The indicated workgroup bridge reported the address of one of its indicated Ethernet clients and the access point already had that address marked as being somewhere else on the network.

**Recommended Action** Click **Refresh** on the Associations page on the access point GUI, or enter the **clear dot11 statistics** command on the CLI.

**Error Message** DOT11-4-ANTENNA\_INVALID: "Interface %s, current antenna position not supported, radio disabled."

**Explanation** The Indicated AIR-RM21A radio module does not support the high-gain position for the external antenna (the high-gain position is folded flat against the access point). The access point automatically disables the radio when the antenna is in the high-gain position.

**Recommended Action** Fold the antenna on the AIR-RM21A radio module so that it is oriented 90 degrees to the body of the access point.

**Error Message** DOT11-6-ANTENNA\_GAIN: "Interface %s, antenna position/gain changed, adjusting transmitter power."

**Explanation** The antenna gain has changed so the list of allowed power levels must be adjusted.

**Recommended Action** None.

**Error Message** DOT11-4-DIVER\_USED: "Interface %s Mcs rates 8-15 disabled due to only one transmit or receive antenna enabled."

**Explanation** The rates listed require at least 2 receive or transmit antennas be enabled.

**Recommended Action** Install and enable at least 2 receive or transmit antennas on the access point.

**Error Message** DOT11-3-RF-LOOPBACK\_FAILURE: "Interface %s Radio failed to pass RF loopback test."

**Explanation** Radio loopback test failed for the interface indicated.

**Recommended Action** None.

**Error Message** DOT11-3-RF-LOOPBACK\_FREQ\_FAILURE: "Interface %s failed to pass RF loopback test."

**Explanation** Radio loopback test failed at a given frequency for the indicated interface.

**Recommended Action** None.

**Error Message** DOT11-7-AUTH\_FAILED: "Station %e Authentication failed"

**Explanation** The indicated station failed authentication.

**Recommended Action** Verify that the user entered the correct username and password, and verify that the authentication server is online.

**Error Message** DOT11-7-CCKM\_AUTH\_FAILED: "Station %e CCKM authentication failed."

**Explanation** The indicated station failed CCKM authentication.

**Recommended Action** Verify that the topology of the access points configured to use the WDS access point is functional.

**Error Message** DOT11-4-CCMP\_REPLAY: "AES-CCMP TSC replay was detected on packet (TSC 0x%11x received from &e)."

**Explanation** AES-CCMP TSC replay was indicated on a frame. A replay of the AES-CCMP TSC in a received packet almost indicates an active attack.

**Recommended Action** None.

**Recommended Action**

**Error Message** DOT11-4-CKIP\_MIC\_FAILURE: "CKIP MIC failure was detected on a packet (Digest 0x%x) received from %e)."

**Explanation** CKIP MIC failure was detected on a frame. A failure of the CKIP MIC in a received packet almost indicates an active attack.

**Recommended Action** None.

**Error Message** DOT11-4-CKIP\_REPLAY: "CKIP SEQ replay was detected on a packet (SEQ 0x&x) received from %e."

**Explanation** CKIP SEQ replay was detected on a frame. A replay of the CKIP SEQ in a received packet almost indicates an active attack."

**Recommended Action** None.

**Error Message** DOT11-4-TKIP\_MIC\_FAILURE: "Received TKIP Michael MIC failure report from the station %e on the packet (TSC=0x%11x) encrypted and protected by %s key."

**Explanation** TKIP Michael MIC failure was detected from the indicated station on a unicast frame decrypted locally with the indicated pairwise key.

**Recommended Action** A failure of the Michael MIC in a received packet might indicate an active attack on your network. Search for and remove potential rogue devices from your wireless LAN. This failure might also indicate a misconfigured client or a faulty client.

**Error Message** DOT11-4-TKIP\_MIC\_FAILURE\_REPORT: "Received TKIP Michael MIC failure report from the station %e on the packet (TSC=0x0) encrypted and protected by %s key"

**Explanation** The access point received an EAPOL-key from the indicated station notifying the access point that TKIP Michael MIC failed on a packet transmitted by this access point.

**Recommended Action** None.

**Error Message** DOT11-3-TKIP\_MIC\_FAILURE\_REPEATED: "Two TKIP Michael MIC failures were detected within %s seconds on %s interface. The interface will be put on MIC failure hold state for next %d seconds"

**Explanation** Two TKIP Michael MIC failures were detected within the indicated time on the indicated interface. Because this usually indicates an active attack on your network, the interface will be put on hold for the indicated time. During this hold time, stations using TKIP ciphers are disassociated and cannot reassociate until the hold time ends. At the end of the hold time, the interface operates normally.

**Recommended Action** MIC failures usually indicate an active attack on your network. Search for and remove potential rogue devices from your wireless LAN. If this is a false alarm and the interface should not be on hold this long, use the **countermeasure tkip hold-time** command to adjust the hold time.

**Error Message** DOT11-4-TKIP\_REPLAY: "TKIP TSC replay was detected on a packet (TSC 0x%ssx received from %e)."

**Explanation** TKIP TSC replay was detected on a frame. A replay of the TKIP TSC in a received packet almost indicates an active attack.

**Recommended Action** None.

**Error Message** DOT11-4-WLAN\_RESOURCE\_LIMIT: "WLAN limit exceeded on interface %s and network-id %d."

**Explanation** This access point has reached its limit of 16 VLANs or WLANs.

**Recommended Action** Unconfigure or reduce static VLANS if access point is trying to associate with RADIUS assigned Network-ID turned on.

**Error Message** SOAP-3-WGB\_CLIENT\_VLAN\_SOAP: "Workgroup Bridge Ethernet client VLAN not configured."

**Explanation** No VLAN is configured for client devices attached to the workgroup bridge.

**Recommended Action** Configure a VLAN to accommodate client devices attached to the workgroup bridge.

**Error Message** DOT11-4-NO\_VLAN\_NAME: "VLAN name %s from RADIUS server is not configured for station %e."

**Explanation** The VLAN name returned by the RADIUS server must be configured in the access point.

**Recommended Action** Configure the VLAN name in the access point.

**Error Message** DOT11-4-NO\_VLAN\_ID: "VLAN id %d from Radius server is not configured for station %e."

**Explanation** The VLAN ID returned by the Radius server must be configured on the access point.

**Recommended Action** Configure the VLAN ID on the access point.

**Error Message** SOAP-3-ERROR: "Reported on line %d in file %s.%s."

**Explanation** An internal error occurred on the indicated line number in the indicated filename in the controller ASIC.

**Recommended Action** None.

**Error Message** SOAP\_FIPS-2-INIT\_FAILURE: "SOAP FIPS initialization failure: %s."

**Explanation** SOAP FIPS initialization failure.

**Recommended Action** None.

**Error Message** SOAP\_FIPS-4-PROC\_FAILURE: "SOAP FIPS test failure: %s."

**Explanation** SOAP FIPS test critical failure.

**Recommended Action** None.

**Error Message** SOAP\_FIPS-4-PROC\_WARNING: "SOAP FIPS test warning: %s."

**Explanation** SOAP FIPS test non-critical failure.

**Recommended Action** None.

**Error Message** SOAP\_FIPS-2-SELF\_TEST\_IOS\_FAILURE: "IOS crypto FIPS self test failed at %s."

**Explanation** SOAP FIPS self test on IOS crypto routine failed.

**Recommended Action** Check IOS image.

**Error Message** SOAP\_FIPS-2-SELF\_TEST\_RAD\_FAILURE: "RADIO crypto FIPS self test failed at %s on interface %s %d."

**Explanation** SOAP FIPS self test on radio crypto routine failed.

**Recommended Action** Check radio image.

**Error Message** SOAP\_FIPS-2-SELF\_TEST\_IOS\_SUCCESS: "IOS crypto FIPS self test passed."

**Explanation** SOAP FIPS self test passed.

**Recommended Action** None.

**Error Message** SOAP\_FIPS-2-SELF\_TEST\_RAD\_SUCCESS: "RADIO crypto FIPS self test passed on interface %s %d."

**Explanation** SOAP FIPS self test passed on a radio interface.

**Recommended Action** None.

**Error Message** DOT11-6-MCAST\_DISCARD: "%s mode multicast packets are discarded in %s multicast mode."

**Explanation** The access point configured as a workgroup bridge and drops infrastructure mode multicast packets in client mode and drops client mode multicast packets in infrastructure mode.

**Recommended Action** None.

## Inter-Access Point Protocol Messages

**Error Message** DOT11-6-STANDBY\_ACTIVE: "Standby to Active, Reason = %s (%d)."

**Explanation** The access point is transitioning from standby mode to active mode for the indicated reason.

**Recommended Action** None.

**Error Message** DOT11-6-STANDBY\_REQUEST: "Hot Standby request to shutdown radios from %e."

**Explanation** The indicated standby access point has requested that this access point shut down its radio interfaces because a failure has been detected on one of this access point's radio interfaces.

**Recommended Action** None.

**Error Message** DOT11-6-ROGUE\_AP: "Rogue AP %e reported. Reason: %s."

**Explanation** A station has reported a potential rogue access point for the indicated reason.

**Recommended Action** None.

# Local Authenticator Messages

**Error Message** RADIUS-4-NAS\_UNKNOWN: Unknown authenticator: [ip-address]

**Explanation** The local RADIUS server received an authentication request but does not recognize the IP address of the network access server (NAS) that forwarded the request.

**Recommended Action** Make sure that every access point on your wireless LAN is configured as a NAS on your local RADIUS server.

**Error Message** RADIUS-4-NAS\_KEYMIS: NAS shared key mismatch.

**Explanation** The local RADIUS server received an authentication request but the message signature indicates that the shared key text does not match.

**Recommended Action** Correct the shared key configuration on either the NAS or on the local RADIUS server.

**Error Message** RADIUS-4\_BLOCKED: Client blocked due to repeated failed authentications

**Explanation** A user failed authentication the number of times configured to trigger a block, and the account been disabled.

**Recommended Action** Use the **clear radius local-server user *username*** privileged EXEC command to unblock the user, or allow the block on the user to expire by the configured lockout time.

**Error Message** DOT1X-SHIM-6-AUTH\_OK: "Interface %s authenticated [%s]."

**Explanation** The 802.1x authentication was successful.

**Recommended Action** None

**Error Message** DOT1X-SHIM-3-AUTH\_FAIL: "Interface %s authentication failed."

**Explanation** The 802.1x authentication failed to the attached device.

**Recommended Action** Check the configuration of the 802.1x credentials on the client as well as the RADIUS server.

**Error Message** DOT1X-SHIM-3-INIT\_FAIL: "Unable to init - %s."

**Explanation** An error occurred during the initialization of the shim layer.

**Recommended Action**

**Error Message** DOT1X-SHIM-3-UNSUPPORTED\_KM: "Unsupported key management: %X."

**Explanation** An error occurred during the initialization of the shim layer. An unsupported key management type was found.

**Recommended Action** None.

**Error Message** DOT1X-SHIM-4-PLUMB\_KEY\_ERR: "Unable to plumb keys - %s."

**Explanation** An unexpected error occurred when the shim layer tried to plumb the keys.

**Recommended Action** None.

**Error Message** DOT1X-SHIM-3-PKT\_TX\_ERR: "Unable to tx packet -%s."

**Explanation** An unexpected error occurred when the shim layer tried to transmit the dot1x packet.

**Recommended Action** None

**Error Message** DOT1X-SHIM-3-ENCAP\_ERR: "Packet encap failed for %e."

**Explanation** An unexpected error occurred when the shim layer tried to transmit the dot1x packet. The packet encapsulation failed.

**Recommended Action** None.

**Error Message** DOT1X-SHIM-3-SUPP\_START\_FAIL: "Unable to start supplicant on %s."

**Explanation** An unexpected error occurred when the shim layer tried to start the dot1x supplicant on the indicated interface.

**Recommended Action** None.

**Error Message** DOT1X-SHIM=3-NO\_UPLINK: "No uplink found for %s."

**Explanation** While processing a dot1x event or message on a dot11 interface, a situation was encountered where an uplink was expected, but not found.

**Recommended Action** None.

**Error Message** Information Group rad\_acct: Radius server <ip address> is responding again (previously dead). Error Group acct: No active radius servers found. Id 106

**Explanation** This message is seen if the **radius-server deadtime 10** command is configured on the access point. This command is configured to set an interval during which the access point does not attempt to use servers that do not respond. Thus avoids the time needed to wait for a request to time

out before trying the next configured server. A Radius server marked as dead is skipped by additional requests for the duration of the minutes unless all servers are marked dead. Configuring dead time for 10 minutes means that the server cannot be used for 10 minutes.

**Explanation** You can disable this command if you want this log to disappear. Actually this message is not really a major problem, it is just an informational log.

## WDS Messages

**Error Message** WLCCP-WDS-6-REPEATER\_STOP: WLCCP WDS on Repeater unsupported, WDS is disabled.

**Explanation** Repeater access points do not support WDS.

**Recommended Action** None.

**Error Message** WLCCP-WDS-6-PREV\_VER\_AP: A previous version of AP is detected.

**Explanation** The WDS device detected a previous version of the access point.

**Recommended Action** None.

**Error Message** WLCCP-AP-6-INFRA: WLCCP Infrastructure Authenticated

**Explanation** The access point successfully authenticated to the WDS device.

**Recommended Action** None.

**Error Message** WLCCP-AP-6-STAND\_ALONE: Connection lost to WLCCP server, changing to Stand-Alone Mode

**Explanation** The access point lost its connection to the WDS device and is in stand-alone mode.

**Recommended Action** None.

**Error Message** WLCCP-AP-6-PREV\_VER\_WDS: A previous version of WDS is detected

**Explanation** The access point detected a previous version of WDS.

**Recommended Action** Check for an unsupported version of WDS on your network.

**Error Message** WLCCP-AP-6-UNSUP\_VER\_WDS: An unsupported version of WDS is detected

**Explanation** The access point detected an unsupported version of WDS.

**Recommended Action** Check for an unsupported version of WDS on your network.

**Error Message** WLCCP-NM-3-WNM\_LINK\_DOWN: Link to WNM is down

**Explanation** The network manager is not responding to keep-active messages.

**Recommended Action** Check for a problem with the network manager or with the network path to the network manager.

**Error Message** WLCCP-NM-6-WNM\_LINK\_UP: Link to WNM is up

**Explanation** The network manager is now responding to keep-active messages.

**Recommended Action** None.

**Error Message** WLCCP-NM-6-RESET: Resetting WLCCP-NM

**Explanation** A change in the network manager IP address or a temporary out-of-resource state might have caused a reset on the WDS network manager subsystem, but operation will return to normal shortly.

**Recommended Action** None.

**Error Message** WLCCP-WDS-3-RECOVER: "%s

**Explanation** WDS graceful recovery errors.

**Recommended Action** None.

## Mini IOS Messages

**Error Message** MTS-2-PROTECT\_PORT\_FAILURE: An attempt to protect port [number] failed

**Explanation** Initialization failed on attempting to protect port.

**Recommended Action** None.

**Error Message** MTS-2-SET\_PW\_FAILURE: Error %d enabling secret password.

**Explanation** Initialization failed when the user attempted to enable a secret password.

**Recommended Action** None

**Error Message** Saving this config to nvram may corrupt any network management or security files stored at the end of nvram. Continue? [no]:

**Explanation** This warning message displays on the access point CLI interface while saving configuration changes through the CLI. This is due to insufficient space in flash memory. When a radio crashes, .rcore files are created. These files indicate a firmware or a hardware problem in the radio, although a hardware problem is less likely.

**Recommended Action** This warning message can be prohibited by removing the rcore files generated in flash memory. The rcore files have a .rcore extension. The files can be deleted because they simply show that the radio went down at some point. The .rcore files can be listed on the CLI session and appear similar to this:

```
r15_5705_AB50_A8341F30.rcore
```

## Access Point/Bridge Messages

**Error Message** APBR-4-SEND\_PKT\_FAILED: Failed to Send Packet on port ifDescr (error= errornum)errornum: status error number

```
HASH(0x2096974)
```

**Explanation** The access point or bridge failed to send a packet. This condition might be seen if there is external noise or interference.

**Recommended Action** Check for sources of noise or interference.

**Error Message** APBR-6-DDP\_CLNT\_RESET: Detected probable reset of hosthost: host MAC address

```
HASH(0x2080f04)
```

**Explanation** The access point or bridge detects that another infrastructure device has restarted.

**Recommended Action** If this message appears continuously, reboot the access point.

# Cisco Discovery Protocol Messages

**Error Message** CDP\_PD-2-POWER\_LOW: %s - %s %s (%e)

**Explanation** The system is not supplied with sufficient power.

**Error Message** Reconfigure or replace the source of inline power.

# External Radius Server Error Messages

**Error Message** RADIUS:response-authenticator decrypt fail, paklen 32

**Explanation** This error message means that there is a mismatch in the RADIUS shared key between the RADIUS server and the access point.

**Recommended Action** Make sure that the shared key used on the RADIUS server and the access point are the same.

