Technical Bulletin CS-14-15

Spectralink 84-Series Wireless Hand-off Reason Codes

This technical bulletin explains the various roaming reason codes reported via logging for the Spectralink 84-Series handsets.

System Affected

Spectralink 84-Series Handsets

Description

Spectralink 84-Series Handsets utilize reason codes that are reported via syslog or upload *macaddress*-app.log files to explain roaming behaviors of the handset. These reason codes are intended for troubleshooting purposes only.

The following list of reason codes show the reason code number that is found in the logging output from the handset and the description of what that code means.

Reason Code	Description
101	This reason code would be used when there is SSID mismatch.
102	This reason code would be used when there is BSSID mismatch.
103	This reason code would be used when there is BSS_TYPE mismatch. *e.g. Open versus Shared*
104	This reason code would be used when there are supported data rates mismatched.
105	This reason code would be used when there is a privacy bit mismatch.
106	This reason code would be used when PSK/Enterprise mode is selected and there is no WPA/RSN IE advertised by the AP.
107	This reason code would be used when there is WPA/RSN IE mismatch. Includes Key management and encryption cipher mismatch. *e.g. OKC enabled instead of CCKM or 3DES cipher instead of SHA1*

Reason Code	Description
108	This reason code would be used when the BSS doesn't support CCX.
109	This reason code would be used when the BSS doesn't support CCKM.
110	This reason code would be used when the BSS doesn't support WMM.
111	This reason code would be used when the BSS doesn't support UAPSD.
112	This reason code would be used when there is WSC (Wifi Simple Config) support mismatch between phone and BSS.
113	This reason code is also related to WSC and would be used when some Abort condition is indicated. Check AP logs for more information.
114	This reason code would be used when there is an internal error while processing/validating the beacon/probe response from the BSS.
140	This reason code would be used when configuration matches (between BSS and phone) and when the BSS is not banned.
141	This reason code would be used when there is authentication timeout with the BSS.
142	This reason code would be used when there is association timeout with the BSS.
143	This reason code would be used when authentication is failed for any reason with the BSS.
144	This reason code would be used when association is failed for any reason with the BSS.
146	This reason code is used during initial association in handset bootloader.
149	This reason is used when switching from one BSS to another because of low signal quality or low SNR roam triggers.
151	This reason code is used when BSS lost is detected from missed beacons in timed-trigger state.
152	This reason code is used when BSS lost is detected from missed beacons in standby state.

Reason Code	Description
153	This reason code is used when switching from one BSS to another because a better AP is available.
154	This reason code is used when switching from one BSS to another because of receiving a security attack roam trigger.
155	This reason code is used when switching from one BSS to another because of a TSPEC rejection from the associated AP.
157	This reason code is used when switching from one BSS to another because of reaching maximum transmit retries with the AP.
158	This reason code is used when switch channel announcement IE is received as part of beacon/probe response/switch channel announcement frame.
159	This reason code is used when switching from one BSS to another because of a low transmit data rate with the associated AP.
160	This reason code is used when de-authentication or disassociation is received from current BSS.
162	This reason code is used when the BSS is banned for any reason like MIC failure/frequent connection failures etc.

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