Release Notes

Summit Software Versions 3.03.23 for the SDC-MSD30AG and SDC-SSD30AG Radios

May 2012

This document provides release notes for V3.03.23 of Summit software operating on a device with the SDC-MSD30AG or the SDC-SSD30AG Summit radio.

Release notes are a summary of new and enhanced features, resolved issues, and known issues that are not resolved in V3.03.23. Consult the User's Guide for details on the features of this software release.

New and Enhanced Features

The following features in **V3.03.23** were not supported in previous versions of Summit software for the 30AG radios.

- **CCX On/Off**
- **Added the following new registry value: WiFiStateOff**
  With summit supplicant active, set registry key ***WiFiStateOff*** =1 to remove the radio on/off control from wireless manager. If ***ThirdPartyConfig*** mode (e.g. zero config) is set, Summit recommends that the radio is controlled through the wireless manager (rather than through SCU).
- **Added the following new registry value: ignoreNullSsid**
  ignoreNullSsid configures the client not to connect to null SSIDs.
- **Added the following new registry value: 5GhzChanMask**
  Setting the value of 5GhzChanMask to "0" disables the use of 5 GHz channels while a value of "1" enables them.

Resolved Issues

The following issues have been fixed in the **V3.03.23** release:

- **PEAP-TLS authentication failure:** PEAP-TLS authentication failure no longer occurs after a session timeout/resumption. (1276)
- **Radio association issue:** Previously, disabling a 30AG radio through SCU and then warm-booting would prevent the radio from associating. This issue has been resolved. (1331)
- **Authentication failure:** With the supplicant, authentication was failing due to an 'expired server certificate' even though the certificate was not expired. This issue has been resolved. (1332)
- **U-APSD not enabled:** U-APSD is now enabled on the 30AG. (1492)
- **Reconnection delay:** Previously, a 100 second reconnection delay would occur after a failed association. This is no longer an issue. (1540)

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- **PEAP failures:** PEAP failures with the Microsoft NPS server no longer occur when the optional crypto-binding check is enabled. (1580)
- **Synchronization issues:** Previously, the 30AG client would become out of sync with the AP after retries on null p-bit on packets. This is no longer an issue. (1626)
- **Roaming issues:** When the 30AG driver attempted to force a roam to a specific AP, an uninitialized variable firmware bug intermittently caused it to roam to the wrong AP. This issue has been resolved. (1627)

The following issues have been fixed in the **V3.03.21** release:

- **CCX V4 – DDP packets:** Previously, Database Description packets (DDP) were not sent when operating with AP-assisted roaming. This issue has been resolved. (1362 and 1097)
- **TELEC and ETSI issues:** 30AG radios configured for the TELEC regulatory domain now connect on channel 14. 30AG radios configured for the ETSI regulatory domain no longer passively scan the following UNII-1 channels: 36, 40, 44, and 48. (1092 and 1093)
- **Transmit power:** When configured for ETSI and KCC regulatory domains, maximum transmit power on the Status window is now displayed correctly (63 mW instead of 50 mW). (1133)
- **Client name:** When the client name is configured on the active profile, the 30AG radio now sends the name to the access point in the Association Request.(1106)
- **30AG connection issues:** The 30AG now connects to an AP with a hidden SSID on a passively scanned channel. (1094)
- **Client power constraint**: The 30AG now adheres to the client power constraint setting only when the CCX global config option is set to **Full**. (1099)
- **30AG in WW:** Previously, the 30AG set in WorldWide mode with .11d would not connect on Intermediate band channels. This issue has been resolved. (1101)
- **Aux antenna signal:** The 30AG now no longer uses the Aux antenna signal when configured for **Main Only**. (1119)
- **Tx diversity:** The firmware issue that caused Tx diversity problems has been fixed. (1218)
- **Disabling CCX features:** The 30AG now has the ability to disable CCX features. (1264)
- **WM 6.5 Wireless Manager:** The Summit radio can be removed from WM 6.5 Wireless Manager using the WiFiStateOff registry key. (1269)
- **Four-way handshake failure:** Previously, the four-way handshake failed during re-authentication. This issue has been resolved. (1277)
- **30AG connectivity issues:** Previous issues between the BG Channel Set and 5 GHz Band connectivity have been corrected. (1361)

The following issues were fixed in the **V3.03.11** release:

- **Roaming Issues**: Previously, there were issues when roaming to BBSIDs that do not begin with “00”. This problem has been resolved.
- Radio control issue (WM 6.5): Previously in SCU, if the 30AG radio is turned off through the CE Windows Network Manager, the control that allows the radio to be turned would disappear. This issue has been resolved.

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- **CKIP authentication:** CKIP is no longer an encryption option in SCU.
- **Intermediate CA support:** The capability has been added to look into the intermediate store for CA certs which allows intermediate certs to be used.
- **Change to credential window prompting method:** You are now prompted for credentials when you choose an SSID from scanning on SCU. If the key is not valid:
  - noPromptForCreds=1 – Prompt once for credentials
  - noPromptForCreds=2 – Never prompt for credentials

The following issues have been fixed in the **V3.03.09** release:

- **EAP-TLS with no stored username:** When running EAP-TLS authentication without storing a username in the profile credentials, the supplicant would clear the certificate after prompting for the username. The user certificate is no longer cleared when the user is prompted for credentials.
- **Clearing CA or PAC:** When switching between EAP-FAST and PEAP-MSCHAP authentication on a single profile, the CA (for PEAP) or the PAC file (for EAP-FAST) was not being cleared. This caused an authentication failure.
- **Suspending device with SCU open:** If SCU was open, then certain devices would not always go into suspend mode when triggered by the power management settings. This is no longer an issue.
- **Error status displays requiring a reset:** At times, the radio would display an error status and would need to be reset. This issue has been resolved.
- **Signal strength affects signal quality:** Prior to this issue being fixed, signal quality would go to 0% when signal strength was stronger than -20dB.
- **Memory leak:** A memory leak that occurred with every suspend/resume sequence has been fixed.
- **Beaconing after switch from ad hoc:** 30AG no longer beacons after switching from an ad hoc profile to an infrastructure profile.
- **Switching from ad hoc profile to non-ad hoc profile:** When switching from an ad hoc profile to an infrastructure profile, the 30AG devices must be suspended and resumed for the radio to operate properly.
- **CCKM with AES:** A profile Encryption setting of WPA2 CCKM, or CCKM with WPA2-Enterprise (EAP authentication and AES-CCMP encryption), is supported.
- **EAP-TLS and FreeRadius:** To ensure compatibility with FreeRadius server versions prior to v2.1.10, RFC4507 EAP-TLS session ticket support has been disabled
- **LED:** Operation of the 30AG LED is now supported.
- **Auto Profile support**: The MSD30AG and SSD30AG radios now support the Auto Profile feature. For additional information regarding Auto Profile, refer to the Auto Profile entry of the Summit Technical Knowledge Base.

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Known Issues

The following are known issues when using the 30AG radio with V3.03.23:

- **Cisco controller issue**: When running Cisco controllers, the 30AG radio may have difficulty selecting a band when the same SSID is offered on both the 2.4 GHz band and the 5 GHz band. Cisco controllers can simultaneously use the same MAC address as the BSSID for two different SSIDs on different bands. If different SSIDs are mapped to the same BSSID, the 30AG is unable to distinguish between the two. This causes the radio to repeatedly change bands/channels within a few seconds.
- **CCX V4 voice features:** Three CCX V4 voice features – call admission control (CAC), (unscheduled automatic power save delivery (U-APSD), and traffic stream metrics – are not supported.
- **CCX Full vs. CCX Optimized:** The behavior of a 30AG radio is the same with a "CCX features" global setting value of Full or Optimized.
- **Attempting to associate to an unsupported configuration:** When an AP is configured for WPA with AES-CCMP encryption – an unsupported configuration for Summit radios – the 30AG radio will alternate repeatedly between ***Associated*** and ***Not Associated*** states.
- **Tray icon issue:** Toggling the Tray Icon off and then on makes the icon unresponsive.
- **SCU Arabic version (WM 6.5):** The SCU does not operate properly when using the Arabic version on WM 6.5 devices.
- **SRU Average Power display error:** Despite changes made to transmit power using the Antenna Adjust boxes in the Summit Manufacturing Utility (SMU), the Summit Regulatory Utility (SRU) Avg. Power always displays as Max. Summit has verified that this is a cosmetic issue only; transmit power adjustments are functional despite what displays in the SRU. Summit plans to fix this issue in a future release.
- **Bluetooth Coexistence/LED Use:** Summit 30AG radios support two LED modes:
  - Standard: Uses pin 42 (MSD30AG) or pin 33 (SSD30AG). Is set via the global setting LED.
  - Special: Is used in conjunction with Bluetooth coexistence. When Wi-Fi data is transmitted, pin 28 of the MSD30AG (pin 49 of the SSD30AG) radio goes high, and the LED for Wi-Fi should be on. When Bluetooth data is transmitted, pin 36 of the MSD30AG (pin 52 of the SSD30AG) radio goes high, and the LED for Bluetooth should be on.
- **Signal quality may display incorrectly:** Due to the fact that the firmware no longer reports missed beacons to the driver, the signal quality in SCU almost always displays a signal quality of 100%.
- **Disconnection issue:** The 30 series radio may disconnect for a short period of time when Bluetooth begins a 2.4 Ghz spectrum hopping transmission in close proximity to the antenna. This is most commonly seen during a Bluetooth discover. Wi-Fi immediately reconnects once Bluetooth discover ends or the Bluetooth device becomes paired.

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