Release Notes

CF10/20

Version 19.3.1.3

This document provides release notes for version **19.3.1.3** of the CF10/20 radio software as well as previously distributed release notes.

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

Operating System Support

- Windows CE 5
- Windows CE 6
- Windows Mobile 5.0
- Windows Mobile 6.5

BUILD 19.3.1.3

Released January 2018

Content

SDK	Driver	Supplicant	sdcgina	sdc_gina	SCU	scuTray	sdc_applet
3.5.3.0	31.3.6.3	40.3.10.19	41.3.3.3	42.3.4.4	45.3.12.13	44.3.4.1	43.3.3.2

New or Enhanced Features

- **Supplicant upgraded:** The Laird supplicant has been rebased to WPA supplicant v2.6

Resolved Issues

The following issues were fixed in this release:

- **KRACK vulnerability** – Fixed WPA2 KRACK vulnerability (12108)

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Europe: +44-1628-858-940
Hong Kong: +852 2923 0600

Known Issues

- **Connection issues (dual-band 10-series radios):** The 10-Series radios (CF10AG, MSD10AG) do not connect to the 5 GHz side of APs that have only a single data rate available (and the single data rate is greater than 18 Mbps). (3351)
- **Antenna Adjust feature (SMU):** Using the Antenna Adjust feature of the SMU on 10-series radios does not make an appreciable difference in the power output of the radio. (3645)
- **Scan feature error (WM5 platforms):** After an initial radio installation on WM5 platforms, selecting the Scan button fails to populate a results list until a profile is configured as the Active Profile. (3522, 3688)
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- **Auto profile and setMonitorMode:** When using the SDK function *setMonitorMode*, you should not use auto-profile features. Auto Profile should be disabled in the global settings. (3142)
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- **Ping much longer after system warm boot with power save in CAM mode (build 3.4.0.5):** With power save set to CAM mode: When cold boot, wait for connection, then ping 1000 times, the response average is 45ms. When warm boot, wait for connection, then ping 1000 times, the response average is 113ms, which is slower. (5479)
- **SRU TX Test does not operate correctly (build 3.4.0.5):** When using SRU for TX Power testing, TX Test fails to make radio transmit. (5779)

BUILD 19.3.1.2

Released July 2016

Content

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New or Enhanced Features

- **Support for new FCC requirements:** This release implements changes needed to comply with new FCC requirements as follows:
  - Disabled channels 12, 13, and 14 when operating in the WW regulatory domain. These channels are only supported if the radio is explicitly configured for a regulatory domain that supports them.
  - Disabled 802.11d. The radio will not change behavior based on the country code transmitted by the AP when operating in WW regulatory domain.
  - All UNII-2 and UNII-3 channels are passively scanned when operating in WW regulatory domain.
- **Supplicant upgraded:** The Laird supplicant has been rebased to WPA supplicant v2.4

Note: The version numbering scheme has changed with this release. The primary change is to the first set of digits. In most cases, the first set of digits is now a unique component identifier.

Resolved Issues

The following issues were fixed in this release:

- **Slow driver load** – Fixed several performance related issues that could cause the driver to load slowly at boot and at resume on some systems. (7821, 8855)
- **EAP timeout improvement** – Fixed an issue that caused an authentication retry to delay longer than necessary when an EAP failure occurred. (7438)
- **Disconnect after authentication** – Fixed an issue that sometimes caused a disconnect to occur after EAPOL authentication and prior to the four way handshake. (8410)
- **Profile changes not always persisted across a reboot** – Fixed an issue that sometimes caused profile changes to be lost if a registry flush did not occur prior to a device reboot. (5990, 8278)
- **Scan results limited when many APs are in range** – Fixed an issue that could result in some APs left out of the scan list reported by the SCU or GetBSSIDList() API when many APs are in range. In some cases this caused the SCU to be non-responsive after opening the scan dialog. (9337, 6971)
- **WEP type text truncated** – Fixed an issue in SCU that caused the WEP type text to be truncated on some portrait mode devices. (8239)
- **GetBSSIDList always reports channel as 0** – Fixed an issue with the GetBSSIDList API that resulted in the channel being reported as 0. (7562)
- **EAP-TLS fails with TLS1.2** – Fixed an issue that caused EAP-TLS authentication to fail if TLS1.2 is used. (9262)
- **WPA2-TKIP profile creation disabled** – As of January 2014, a WPA2-TKIP profile is no longer allowed by the Wi-Fi Alliance. With this release, the SCU will not allow a WPA2-TKIP profile to be created. (6042)
- **SCU crash**: If the Certs Path option is selected on the SCU Global config tab, SCU crashes if the certificate store path length is greater than 39 characters. (6081, 6074)
- **GetBSSIDList() reports incorrect wepType –** Fixed an issue that caused the function GetBSSIDList() in the SDK to incorrectly report wepType = WPA2_TKIP instead of WPA2_AES when the RSN IE included an 8021X AKM, and did not include a CCKM AKM. (5324)

- **SCU fails to create a profile for a mixed mode AP** – Fixed an issue that caused SCU to refuse to create a profile for an AP that advertised support for both WPA2-TKIP and WPA2-AES. (7459)
- **SCU** - All passwords including Admin Login, Admin password, and Wi-Fi Security Passwords (i.e. WEP Keys, PSK, etc.) are now displayed as '*'. There is no option to see the passwords in plain text in the SCU.exe or SDCGina.exe. (6912)

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BUILD 3.5.0.7

Released July 2016

Content

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3.5.3.0	31.3.6.3	40.3.2.12	41.3.3.3	42.3.4.4	45.3.12.13	44.3.4.1	43.3.3.2

New or Enhanced Features

- **Singapore channel support:** Added support for channels 100-140 in Singapore. (7960)

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- **SRU TX Test does not operate correctly (build 3.4.0.5):** When using SRU for TX Power testing, TX Test fails to make radio transmit. (5779)
- **Encryption types not displayed:** After system reboot, encryption type WPA2-PSK with TKIP and WPA-PSK with AES setting is gone (build 3.4.0.5). (5990)
- **SCU crash**: If the Certs Path option is selected on the SCU Global config tab, SCU crashes if the certificate store path length is greater than 39 characters. (6081, 6074)

BUILD 3.5.0.5

April 2015

Content

SDK	Driver	Supplicant	sdcgina	sdc_gina	SCU	scuTray	sdc_applet
3.5.0.10	3.5.0.11	3.5.22.0	3.5.0.3	3.5.1.15	3.5.6.43	3.5.0.4	3.5.0.2

New and Enhanced Features

- **SDK 3.5:** SDK has been updated to 3.5.0.10.
- **One ZIP Distro:** Distribution of software suite using multiple ZIP files has been eliminated. One ZIP file now contains all of the binaries and integration files needed to integrate our software suite with OS Images of all supported OS and target CPUs. Individual CAB files are still part of our distribution but we recommend integration of our product via our PBCXML.
- **Shell API Ready Override:** Added a registry based timeout override for use by platforms that have incorrectly included the shell in their platform configuration, but prevented it from running. In this scenario, the shell and GWES APIs are registered, but will never be signaled ready since the shell does not run. Some Laird components wait for these APIs to be ready to prevent a crash that can occur if shell APIs are called before they are ready. The registry based override allows these components to run after the specified delay. The new registry key is located at [HKEY_LOCAL_MACHINE\Comm\SDCCF10G1\Parms\Configs\GlobalConfig] and named "APIWaitTime". It should be set to the number of milliseconds to wait before continuing. This value should only be set on platforms that have prevented a shell from running. (5138)
- Resolved Issues
- **Association failures with Spectrum Management required:** Fixed another issue that prevented the radio from connecting when spectrum management was required (5611)
- **Wrong encryption setting when creating a profile:** Fixed an issue that caused the wrong encryption type to be set on the profile page when a user would scan for an AP and create a new profile. (3909)
- **Tray icon present when turned off in global configuration:** Previously, when the tray icon was turned off in the global configuration, it would disappear from the system tray but reappear following a reboot of the device, even though it was still off in the global configuration. This issue has been resolved. (4382)
- **EAP Type errors:** When configuring profiles on the SCU that do not use EAP types, it was possible to select an EAP type from the EAP Type drop-down menu. Attempting to “Commit” a profile with an incorrect mix of Encryption type and EAP type correctly results in an error. (3306)

- **Failure to reconnect after MIC countermeasures:** Fixed an issue that prevented the CF10 from reconnecting automatically after MIC countermeasures expired. (6732)
- **Failure to honor Disassociate request from supplicant in Third Party mode:** Extended support for the Disassociate logic in the OID_802_11_SSID call to Third Party mode. This support previously existed only when the Laird supplicant was in use. (6451)
- **A rates only lockup:** Fixed an issue that caused the driver to hang when the Radio Mode was configured for A rates only and there were no APs available to roam to when the current AP went out of range. (6885)
- **WZC fails to connect when scan list includes many passive channels:** Fixed an issue that prevented WZC from connecting if the scan list included many passive channels, causing the scan time to exceed 3 seconds. This could occur if DFS channels were enabled, but no APs were broadcasting on these channels. (6962)
- **802.11d not working**: Fixed an issue that prevented 802.11d country codes from being utilized in Worldwide regulatory domain. Added UNII-2 Extended and UNII-3 channels as well as channels 12-14 to the list of passively scanned channels in Worldwide regulatory domain, allowing the client to connect on these channels if the AP is configured for it. Note that this change increases the number of passive channels scanned in the WW regulatory domain, which will increase scan times if there are no APs broadcasting on these channels. (6894)
- **Active scan on UNII-2 channels**: Fixed an issue that caused the CF10 to actively scan UNII-2 channels in WW regulatory domain without first detecting an AP on those channels with a passive scan. (6937)
- **Unsupported channels**: Fixed an issue that caused the CF10 driver to passively scan channels 120, 124 and 128 in the FCC regulatory domain. These channels are not allowed and no traffic should be seen, thus removing them allows the scan to complete quicker. In addition, fixed an issue that caused the CF10 driver to actively scan channel 165 in the FCC regulatory domain. This channel is permitted, but not supported by the CF10 and has been removed. (6938)
- **Disabling the radio during a scan can cause a driver crash**: Fixed an issue that could cause a data abort and driver crash if the radio was disabled while a scan was in progress. (6957)

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- **Encryption types not displayed:** After system reboot, encryption type WPA2-PSK with TKIP and WPA-PSK with AES setting is gone (build 3.4.0.5). (5990)
- **SCU crash**: If the Certs Path option is selected on the SCU Global config tab, SCU crashes if the certificate store path length is greater than 39 characters. (6081, 6074)

BUILD 3.4.0.5

September 2014

Content

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3.4	3.4.2.1	3.4.7.12	3.4.0.0	3.4.1.8	3.4.5.26	3.4.0.1	3.4.0.0

New and Enhanced Features

- **Supplicant expired certificate checking:** Added the ability to toggle the supplicant expired certificate checking. Certificate date checking is enabled in the supplicant if the *suppInfo* bit 2 is set (0x4) in the global configuration. (4505)
- **SDK version display:** The SDK version now displays in the SCU About dialog.

Resolved Issues

- **Long delays in passing traffic with power save enabled:** The 10 series radio can have long delays in transferring data after going into power management. The maximum number of retry counts was increased to reduce the likelihood that a transmit failure would terminate the packet. (3838)
- **Incorrect supported channels in WW and KCC regulatory domains:** Supported channels for the KCC and WW regulatory domains have been corrected. (4087)
- **Association failures with Spectrum Management required:** An issue preventing the 10 series radio from connecting when Spectrum Management capability is required by the infrastructure has been resolved. (4558)
- **Supplicant exception when CertPath is not set:** The supplicant could throw and exception if the CertPath was not set on certain WM/CE platforms. This issue has been resolved. (4626)
- **Profile update issue:** With the import/export function, the active profile would not previously update. This is no longer an issue. (4427)

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- **Encryption types not displayed:** After system reboot, encryption type WPA2-PSK with TKIP and WPA-PSK with AES setting is gone (build 3.4.0.5). (5990)

BUILD 3.4.0.3

May 2013

Content

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3.4	3.4.0.6	3.4.7.3	3.4.0.0	3.4.1.7	3.4.2.10	3.4.0.0	3.4.0.0

New and Enhanced Features

- **SDK 3.4:** SDK has been updated to 3.4.

Resolved Issues

- **Invalid credentials prompt with PEAP-TLS:** When authenticating using PEAP-TLS, the user was incorrectly prompted to enter a password when prompted for credentials. When prompted for credentials, the user is no longer prompted for a password when using PEAP-TLS. (3668)
- **Incomplete registry writes on suspend:** During suspend processing, the 10 series driver would write updated values to certain registry keys which could result in flash corruption if power were removed during writing. This issue has been resolved. (4336)
- **Disassociation when receiving a Pathloss Measurement request:** The 10 series radio would disassociate after receiving a CCX Pathloss Measurement request from an AP. The 10 series radio no longer disassociates after receiving this measurement request. (4164)

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BUILD 3.3.19.56

November 2012

Content

SDK	Driver	Supplicant	sdcgina	sdc_gina	SCU	scuTray	sdc_applet
3.3	3.3.19.56	3.3.18.0	3.3.8.0	3.3.11.0	3.3.22.0	3.3.12.4	3.3.8.0

New and Enhanced Features

- **scuTray:** Added support for the registry key HKLM\Comm\SDCCF10G1\Parms\Configs\GlobalConfig\scuTrayLoadDelay, to allow user to configure the system to delay scuTray initialization. The default is 0, if registry entry does not exist.

Resolved Issues

- **scuTray:** Added CheckAndWaitForAPIs to resolve exception that will be thrown if scuTray is spawned before the GWES API or Shell API is ready.
- **CF10 driver load failure:** On some devices, accessing the "BusType" registry entry would occasionally fail after a reboot, which would result in the driver unloading. This issue has been resolved.

- **CF10 driver build for 16-bit card access using polling mode:** Previously, when the CF10 driver was built for 16-bit card access, the driver was hard-coded to use polling mode instead of using interrupts. The hard coding has been removed, so the "polledIRQ" registry entry can now be used if polling is required for a 16-bit card access driver build.
- **High CPU utilization:** An issue resulting in high CPU utilization was addressed by making changes to obey the usage rules for NdisMStallExecution, and by correcting a missing key variable reset upon loop exit.
- **CF10 Rx/Tx delays after going into power management:** An issue which resulted in delays in wireless Rx/Tx after going into power management has been resolved.
- **CF10 sends null packet before link is up:** The CF10 radio no longer sends a null packet to an AP before the link with the AP has been fully established. The previous behavior could cause the client to be de-authenticated before the connection was fully established.

Known Issues

- **Connection issues (dual-band 10-series radios):** The 10-Series radios (CF10AG, MSD10AG) do not connect to the 5 GHz side of APs that have only a single data rate available (and the single data rate is greater than 18 Mbps).
- **Antenna Adjust feature (SMU):** Using the Antenna Adjust feature of the SMU on 10-series radios does not make an appreciable difference in the power output of the radio.
- **Scan feature error (WM5 platforms):** After an initial radio installation on WM5 platforms, selecting the Scan button fails to populate a results list until a profile is configured as the Active Profile.
- **EAP Type errors:** When configuring profiles on the SCU that do not use EAP types, it is possible to select an EAP type from the EAP Type drop-down menu. Attempting to "Commit" a profile with an incorrect mix of Encryption type and EAP type correctly results in an error.
- **Disabling the radio:** If "Disable" is the focus on the Main tab of the SCU, changing to the Status tab and tapping the spacebar can disable the radio.
- **Manual WEP configuration option:** Scanning for an SSID set to "CKIP Auto" results in a configuration option of "Manual WEP".
- **Ad hoc mode/Channel mode support issue:** Ad hoc mode does not support the BG Channel Mode setting in the Global tab.
- **SCU: Ad hoc connection shown before completed:** When the radio mode is Ad Hoc, SCU displays a connection five to ten seconds before the connection is actually established. This is consistent with the behavior of Wireless Zero Configuration (WZC) when it is used instead of SCU.
- **Incorrect AP name displays:** When associated using an Ad hoc profile the SCU may display an incorrect AP name on the Status tab; it may use the Cisco AP name from the previous, infrastructure mode profile connection.
- **Auto profile and setMonitorMode:** When using the SDK function *setMonitorMode*, you should not use auto-profile features. Auto Profile should be disabled in the global settings.

BUILD 3.3.15.36

June 2012

Content

SDK	Driver	Supplicant	sdcgina	sdc_gina	SCU	scuTray	sdc_applet
3.3	3.3.15.36	3.3.18.0	3.3.8.0	3.3.8.0	3.3.18.0	3.3.8.0	3.3.8.0

New and Enhanced Features

- **Added the following new registry value: WiFiStateOff**
  With summit supplicant active, set registry key *WiFiStateOff* =1 to remove the radio on/off control from the Windows 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.
- **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

Resolved Issues

- **Dlink DIR-618 AP association:** The 10 Series radio no longer fails to associate to a Dlink DIR-618 AP due to a data rate mismatch. The issue is resolved by setting the global config registry DWORD, *forceAllBasicRates*, to a value of “1”. The default value for this registry key is “0”.
- **PEAP-TLS authentication failure:** PEAP-TLS authentication failure no longer occurs after a session timeout/resumption.
- **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)
- **PEAP failures:** PEAP failures with the Microsoft NPS server no longer occur when the optional crypto-binding check is enabled.
- **SCU scan:** When the SCU scan window is open and updating, SCU will now add any additional networks it finds.
- **Communication issues for PC10G:** Previously, the PC10G would lose connectivity with the back-end host. Although SCU continued to update signal strength and quality, the radio was unable to send data. AP believed that the client was no longer associated. This issue has been resolved. (1593)
- **Delay in ping request delay:** When pinging the radio at 500 ms intervals, there was a ten second delay on the return to coverage. This is no longer an issue. (1449)
- **Device lockup connected to card eject/insert:** Due to code changes, the affected devices no longer lock up after multiple days of repeating card eject/insert process. (1408)
- **Need to reload driver after changing 3rd party config power settings:** Previously, while using third party config, the driver needed to be reloaded for power setting changes to take place. SCU now initiates ‘activate config’ after saving any third party configuration changes. (1380)

- **Disassociation request error:** 10 series radios were not sending out disassociation requests after a suspend/resume cycle. This issue has been resolved. (1375)
- **Radio connecting to 2.4 GHz channels when client set to A Rate Only:** 10 series radios no longer connect (or send probe requests) to 2.4 GHz channels with 'A rate only' is used. (1359)

Known Issues

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- **Incorrect AP name displays:** When associated using an Ad hoc profile the SCU may display an incorrect AP name on the Status tab; it may use the Cisco AP name from the previous, infrastructure mode profile connection.
- **Auto profile and setMonitorMode:** When using the SDK function *setMonitorMode*, you should not use auto-profile features. Auto Profile should be disabled in the global settings.

BUILD 3.3.8

March 2011

Content

SDK	Driver	Supplicant	sdcgina	sdc_gina	SCU	scuTray	sdc_applet
3.3	3.3.8.0	3.3.11.0	3.3.8.0	3.3.8.0	3.3.8.0	3.3.8.0	3.3.8.0

Resolved Issues

- **Radio Mode BG subset rates:** Rates are now correct when configured for Radio Mode BG subset.

- **Erased EAP-TLS User Cert (Supplicant):** The EAP-TLS user cert is no longer erased after prompting for username.
- **RFC4507 EAP-TLS Session Ticket support (Supplicant):** RFC4507 EAP-TLS session ticket support is now enabled (for compatibility with Free Radius server).
- **SCU CCX Global option:** The CCX Global option was changed to warn the user to power-cycle.
- **Active Sync reconnection issue:** Previously, devices would not reconnect after Active Sync was disconnected. This issue has been fixed.
- **SCU desktop icon error (CE5):** Previously, minimizing SCU by tapping the desktop icon in the toolbar prevented the desktop shortcut from operating properly. This issue has been fixed.
- **PEAP-TLS "helper" function:** Support has been added for PEAP-TLS "helper" function.