CC31xx Provisioning AP

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Overview and Application details

This is a sample application demonstrating how CC3100's internal web-server can be used to associate the device with an access-point. The device comes-up in STATION mode, scans for available access-points, switches to AP mode and waits for client to connect and complete the provisioning process.



Note: This wiki page is only applicable for CC3100-SDK v0.5.2 and upward releases. For documentation on older SDKs' examples, refer corresponding file in <cc3100-sdk-installation-location>\cc3100-sdk\docs\examples\

Usage

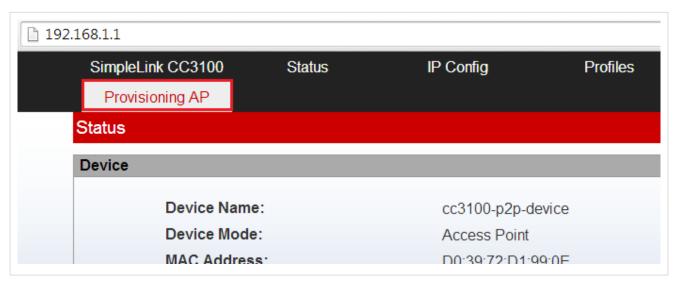
- Flash 'main.html', 'provisioning_apg.html', 'param_status.html' and 'js/jquery-1.8.3.min.js' on serial-flash by following below steps:
 - If CC3100 SDK is installed at default location, i.e. at 'C:\ti\CC3100SDK', then:
 - Open the session-file at 'C:/ti/CC3100SDK/cc3100-sdk/examples/provisioning_ap/uniflash_template/provisioning_ap.ucf' in Uniflash.
 - 2. Flash the above files on the device. Uniflash_User_Guide has detailed flashing instructions
 - If CC3100 SDK is not installed at default location, then:
 - Open the session-file at '<cc3100-sdk-installtion-location>/examples/provisioning_ap/uniflash_template/provisioning_ap.ucf' in Uniflash
 - 2. Modify **Url** for all the files in the list
 - 3. Flash the above files on the device. Uniflash_User_Guide has detailed flashing instructions
- · Build and run the application.

Device first comes up in STA mode and scans for the visible access-points

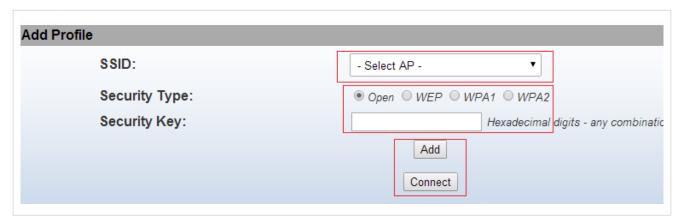
Next, it restarts and comes up in AP mode (w/ SSID name as 'CC3100_PROVISIONING_AP') for clients to connect and provision the device to an access-point using a web browser

- Connect a client to SSID CC3100_PROVISIONING_AP
- Open a web-browser on the client and enter the IP of CC3100 (default IP: 192.168.1.1) in the browser's address-bar. 'mysimplelink.net' can also be entered for accessing the web page.
- Click on 'Provisioning AP' tab.

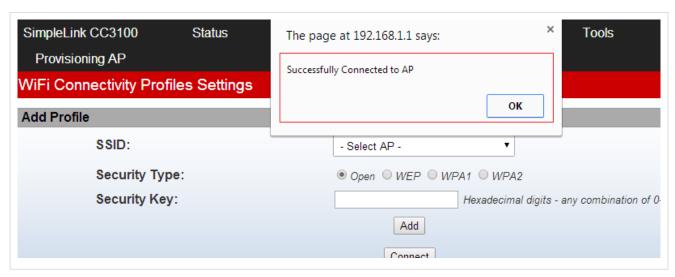
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• Select an AP from the list, enter the security parameters, click on 'Add' and 'Connect' button to connect to the AP



• Wait for the feedback for CC3100. (Instructions provided by the web page should be followed)



• Click on 'Switch to Station Mode' to connect to the AP.

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Limitations/Known Issues

• Only 20 APs can be scanned by the CC3100

Article Sources and Contributors

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