CC31xx Provisioning AP

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 v1.0.0** 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:
  1. Open the configuration-file at '<cc3100-sdk-installtion-location>/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
- Open **sl_common.h** and change **SSID_AP_MODE**, **PASSWORD_AP_MODE** and **SEC_TYPE_AP_MODE** to configure cc3100 in access-point's mode.
- Build and run the application.

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Device first comes up in STA mode and scans for the visible access-points
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Next, it restarts and comes up in AP mode (w/ SSID name as
'<SSID_AP_MODE>') for clients to connect and provision the device
 to an access-point using a web browser
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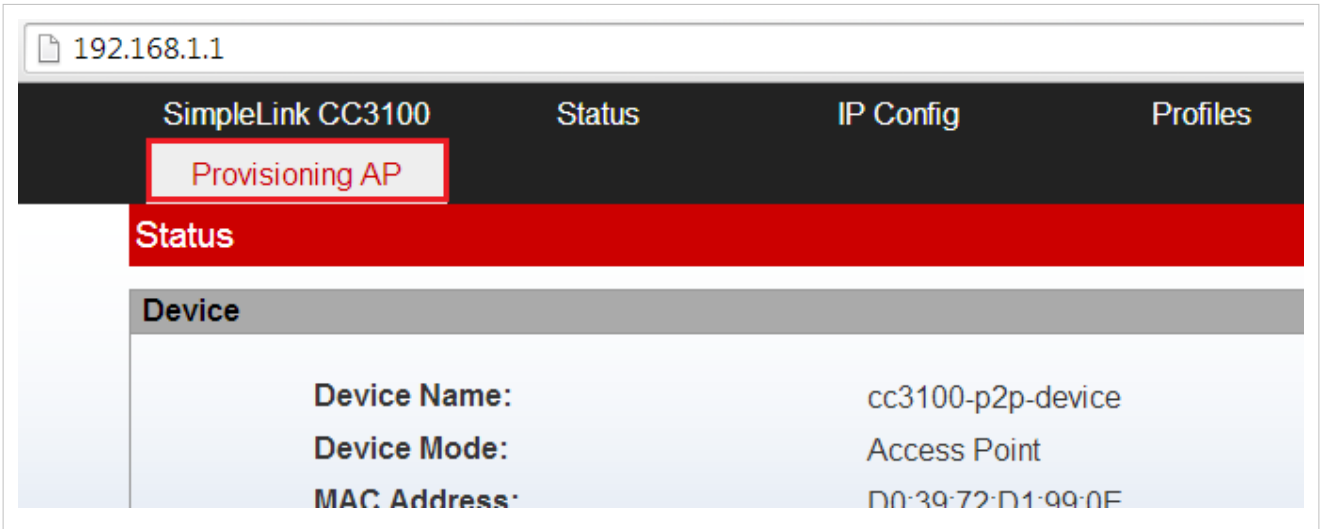
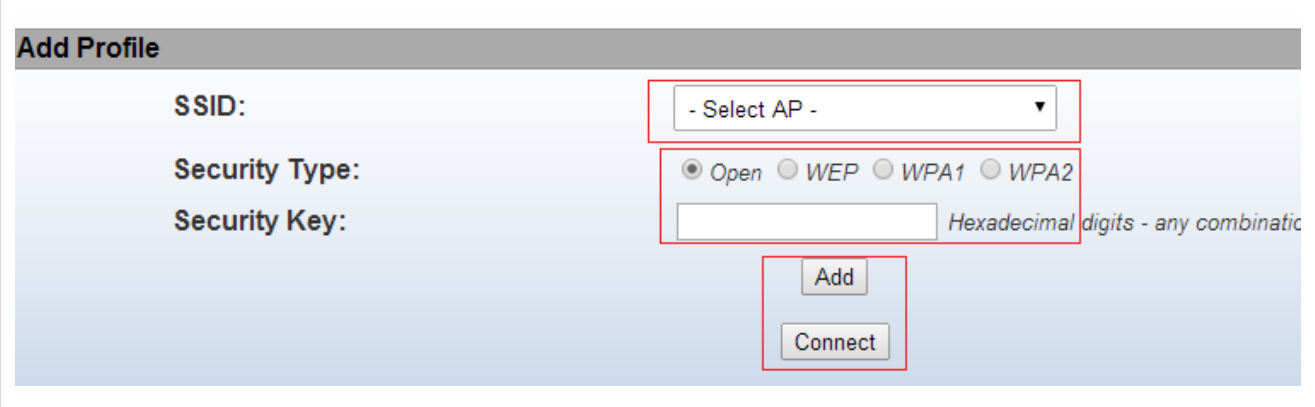
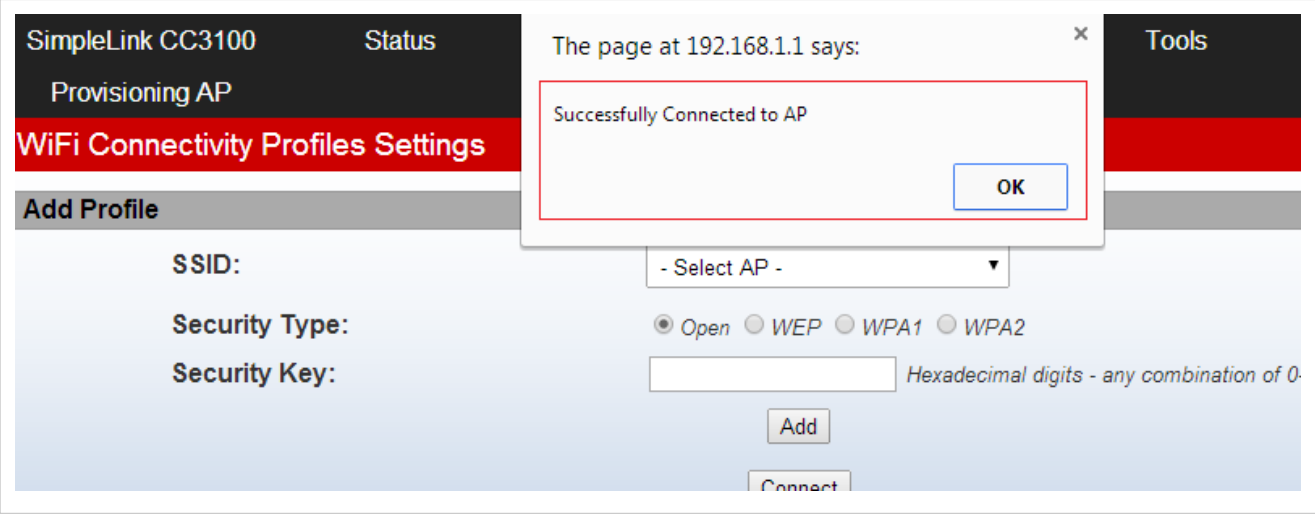
- Connect a client to SSID **<SSID_AP_MODE>**
- Open a web-browser on the client and enter the IP of CC3100 (default IP: 192.168.1.1) in the browser's address-bar. 'mysimplelink.net' can also be entered for accessing the web page.
- Click on 'Provisioning AP' tab.



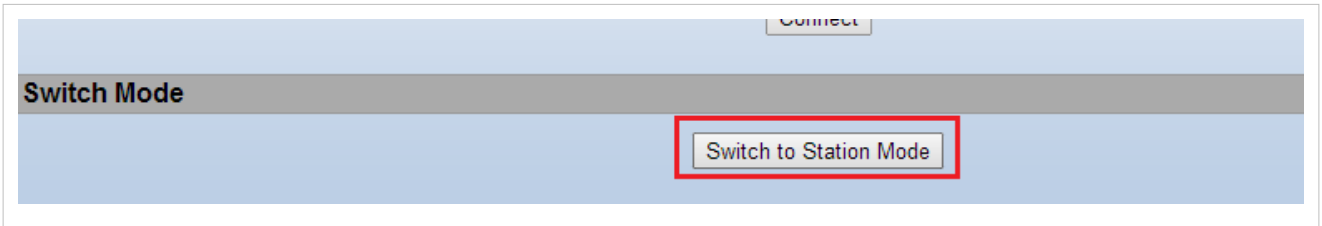
- Select an AP from the list, enter the security parameters, click on 'Add' and 'Connect' button to connect to the AP



- 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.



Limitations/Known Issues

- Only 20 APs can be scanned by the CC3100

Article Sources and Contributors

CC31xx Provisioning AP *Source*: http://processors.wiki.ti.com/index.php?oldid=184830 *Contributors*: A0131814, A0132173, A0221015, Codycooke, Malokyle

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