

CC31xx Provisioning AP

Overview and Application details

Provisioning AP demonstrates the usage of CC3100's internal web-server to associate the device with an access-point. The device comes-up in STATION mode, scans for available APs, switches to AP mode and waits for client to connect and complete the provisioning process.

Usage

- Download 'main.html', 'provisioning_apg.html', 'param_status.html' and 'js/jquery-1.8.3.min.js' using 'sl_prog' utility provided with the SDK. Instruction on using 'sl_prog' is provided in 'README.txt' under '<sdk>/tools/sl_progammer_command_line/' directory.

Command to flash the binaries:

```
slprog_0.5.exe -p <port-num> -b Sl_Flash_Html_Files.txt
```

where, Sl_Flash_Html_Files.txt shall contain below lines:

```
<path>\main.html, www/main.html, SFLASH
```

```
<path>\provisioning_ap.html, www/provisioning_ap.html, SFLASH
```

```
<path>\param_status.html, www/param_status.html, SFLASH
```

```
<path>\js\jquery-1.8.3.min.js, www/js/jquery-1.8.3.min.js, SFLASH
```

- Build and run the application

Device first comes up in STA mode, scans for 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 the web browser and enter the IP of CC3100 (default IP: 192.168.1.1). 'mysimplelink.net' can also be entered for accessing the web page.
- Click on 'Provisioning AP' tab.

192.168.1.1

SimpleLink CC3100	Status	IP Config	Profiles
Provisioning AP			
Status			
Device			
Device Name:		cc3100-p2p-device	
Device Mode:		Access Point	
MAC Address:		00:30:72:01:00:0F	

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

Add Profile

SSID:

Security Type: ☒ Open ☐ WEP ☐ WPA1 ☐ WPA2

Security Key:

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

SimpleLink CC3100 Provisioning AP

WiFi Connectivity Profiles Settings

Add Profile

SSID:

Security Type: ☒ Open ☐ WEP ☐ WPA1 ☐ WPA2

Security Key:

The page at 192.168.1.1 says:

Successfully Connected to AP

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

Switch Mode

Limitations/Known Issues

- Only 20 APs can be scanned by the CC3100

Article Sources and Contributors

CC31xx Provisioning AP *Source:* <http://ap-fpdsp-swapps.dal.design.ti.com/index.php?oldid=188865> *Contributors:* A0131814, Giansway

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