CC31xx Provisioning WPS Application

Overview and application details

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This is a sample application demonstrating how to use WPS Wi-Fi provisioning with CC3100. The application provisions the device to a Wi-Fi network using the two options available w/ WPS:

- **Push button**
- **PIN code**

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

- Choose an AP that supports Wi-Fi provisioning using WPS (w/ Push-Button and Pin-Code methods).
- Connect the board to a Windows-PC and configure the terminal-program for seeing the logs - [| CC31xx_&_CC32xx_Terminal_Setting_Wiki [1]] has detailed instructions for configuring the terminal-program
- Build the application. Download and execute it on the target device.

```
On running the application, the device waits for a connection using the WPS (PushButton) mode.
```

- Connect a Smartphone/Laptop to the AP and open the AP webpage
- Press the WPS Push-Button on the AP for starting the connection process. The connection can as well be initiated from the AP's webpage (if supported)

```
On a successful connection, the device disconnects from the AP and waits for a connection to be established using the WPS Pin-Code mode
```

- Enter the PIN Code **35072317** in the webpage of AP to establish a WPS connection

Note: Application getting stuck in below loop indicates a failed connection

```
while (!(g_Status & IP_ACQUIRED ) || !(g_Status & CONNECTED))
{
    _SlNonOsMainLoopTask();
}
```

- See the self explanatory logs on the terminal-program's console. On success, below message will be displayed on the terminal

```
Provisioning WPS application - Version 1.0.0
************************************************************
Device is configured in default state
Device started as STATION
Establishing connection w/ an AP using wps-push button
Connection established w/ AP and IP is acquired
Device disconnected from the AP on application's request
Establishing connection w/ an AP using wps-pin
Connection established w/ AP and IP is acquired
Device disconnected from the AP on application's request
```

Limitations/Known Issues

None

References

[1] http://processors.wiki.ti.com/index.php/CC31xx_&_CC32xx_Terminal_Setting

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