

# CC31xx SLS Getting started with WLAN AP

## Overview and application details

CC3100 can act as an 'Access-Point' (AP). Any WLAN station in its range can connect/communicate to/with it as per the standard networking protocols.

This sample application configures CC3100 in AP-mode and waits for clients to connect w/ it. On a successful connection, the device pings the connected station. For information on how to use Visual-Studio or Eclipse to compile and run this application refer to 'Environment Setup' section of 'simplelink\_studio\_guide' in '`cc3100/>docs/app_notes`' folder.

To use the CC3100 UART interface define 'SL\_IF\_TYPE\_UART' in the project property. Change the COMM\_PORT\_NUM in 'main.c' to first com port of FTDI.

## Source Files briefly explained

i. main - Initializes the device, configures it in AP mode and verifies the connection status

## Usage

- Build and launch the application using VS or Eclipse
- The application shall request user for the SSID name and security configuration of the device in AP mode - Enter the required details on the terminal

Note: The device will be configured in AP mode and shall wait for clients to connect w/ it. It also pings the connected clients to check the connection status

- On a success, below message will be displayed on the terminal.

```
Getting Started with AP Example:
Please input the SSID name for AP mode:
Test_Open
Encryption Types for AP mode:
1: Open
2: WEP
3: WPA
Please enter the corresponding number for the encryption type:
1
Please enter the password for AP mode:
1
Configured CC3100 in AP mode, Restarting CC3100 in AP mode
Connect client to AP Test_Open
Client connected
Start pinging to client
Ping successful
Press any key to continue . . . _
```

```
Getting Started with AP Example:

Please input the SSID name for AP mode: Test_WEP
Encryption Types for AP mode:
1: Open
2: WEP
3: WPA
Please enter the corresponding number for the encryption type: 2
Please enter the password for AP mode: ABCDE
Configured CC3100 in AP mode, Restarting CC3100 in AP mode
Connect client to AP Test WEP
Client connected
Start ping to client
Ping successful
Press any key to continue . . .
```

```
Getting Started with AP Example:

Please input the SSID name for AP mode: Test_WPA
Encryption Types for AP mode:
1: Open
2: WEP
3: WPA
Please enter the corresponding number for the encryption type: 3
Please enter the password for AP mode: Test@WPA
Configured CC3100 in AP mode, Restarting CC3100 in AP mode
Connect client to AP Test WPA
Client connected
Start ping to client
Ping successful
Press any key to continue . . .
```



**Note::** User needs to switch the device in station after running this application.

## Limitations/Known Issues

None

# Article Sources and Contributors

**CC31xx SLS Getting started with WLAN AP** *Source:* <http://ap-fpdsp-swapps.dal.design.ti.com/index.php?oldid=188344> *Contributors:* A0131814, Giansway

## Image Sources, Licenses and Contributors

**Image:GettingStartedWithAp\_1.png** *Source:* [http://ap-fpdsp-swapps.dal.design.ti.com/index.php?title=File:GettingStartedWithAp\\_1.png](http://ap-fpdsp-swapps.dal.design.ti.com/index.php?title=File:GettingStartedWithAp_1.png) *License:* unknown *Contributors:* A0131814

**Image:GettingStartedWithAp\_3.png** *Source:* [http://ap-fpdsp-swapps.dal.design.ti.com/index.php?title=File:GettingStartedWithAp\\_3.png](http://ap-fpdsp-swapps.dal.design.ti.com/index.php?title=File:GettingStartedWithAp_3.png) *License:* unknown *Contributors:* A0131814

**Image:GettingStartedWithAp\_2.png** *Source:* [http://ap-fpdsp-swapps.dal.design.ti.com/index.php?title=File:GettingStartedWithAp\\_2.png](http://ap-fpdsp-swapps.dal.design.ti.com/index.php?title=File:GettingStartedWithAp_2.png) *License:* unknown *Contributors:* A0131814

**File:Light\_bulb\_icon.png** *Source:* [http://ap-fpdsp-swapps.dal.design.ti.com/index.php?title=File:Light\\_bulb\\_icon.png](http://ap-fpdsp-swapps.dal.design.ti.com/index.php?title=File:Light_bulb_icon.png) *License:* unknown *Contributors:* DanRinkes