

# CC31xx IP Configuration Application

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## Overview

This sample application demonstrates how to configure a static IP address for CC3100. The device connects to the AP w/ the configured static IP. The IP address will be stored in the FileSystem.

## Source Files briefly explained

i. main - Initializes the device, configures cc3100 for static IP and connects to AP.

## Application details and Usage

- Edit values for below macros in 'main.c' for configuring the static IP address:

```
#define CONFIG_IP          SL_IPV4_VAL(192,168,1,45)
```

- Edit values for below macros in 'main.c' per the APs properties:

```
#define AP_MASK            SL_IPV4_VAL(255,255,255,0)
#define AP_GATEWAY         SL_IPV4_VAL(192,168,1,1)
#define AP_DNS             SL_IPV4_VAL(0,0,0,0)
```

- Edit following parameters in 'main.c' - The device connects to this AP on getting the corresponding command from application:

```
#define SSID_NAME          "<ap_name>"
```

- Build and run the application

The device connect to the '<ap\_name>' access-point w/ the static IP defined in 'CONFIG\_IP'.

The connection could be checked by pinging CC3100 on the static IP address

```
Pinging 192.168.1.45 with 32 bytes of data:
Reply from 192.168.1.45: bytes=32 time=245ms TTL=128
Reply from 192.168.1.45: bytes=32 time=164ms TTL=128
Reply from 192.168.1.45: bytes=32 time=42ms TTL=128
Reply from 192.168.1.45: bytes=32 time=262ms TTL=128

Ping statistics for 192.168.1.45:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 42ms, Maximum = 262ms, Average = 178ms
```

## Notes

- To configure the device in DHCP mode again, call 'SL\_STA\_IPV4\_DHCP\_SET' after 'sl\_Start' - Defining 'USE\_DHCP' is this sample example configures the device in DHCP mode

## Limitations/Known Issues

None

# Article Sources and Contributors

**CC31xx IP Configuration Application** *Source:* <http://ap-fpdsp-swapps.dal.design.ti.com/index.php?oldid=188692> *Contributors:* A0131814, Giansway

# Image Sources, Licenses and Contributors

**Image:IP\_Config\_1.png** *Source:* [http://ap-fpdsp-swapps.dal.design.ti.com/index.php?title=File:IP\\_Config\\_1.png](http://ap-fpdsp-swapps.dal.design.ti.com/index.php?title=File:IP_Config_1.png) *License:* unknown *Contributors:* A0131814