## CC3100 mDNS

## Overview

This sample application demonstrates how to register mDNS services, multicast them on mDNS port and try to get the IP, port and text of another service.

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

## Application details and Usage

This application registers and multicast three services at mDNS port. It also tries to get the IP, port and text of a service multicast-ed by another device

- Connect the board to a Windows-PC and configure the terminal-program for seeing the logs - CC3100 \& CC3200 Terminal Setting has detailed instructions for configuring the terminal-program
- Multicast service parameters can be changed by changing below macros in main.c:

```
#define MDNS_SERVICE_1 "cc3100-service-1._ipp._tcp.local"
#define MDNS_SERVICE_2 "cc3100-service-2._ftp._tcp.local"
#define MDNS_SERVICE_3 "cc3100-service-3._ipp._udp.local"
```

```
#define MDNS_TEXT_1
```

\#define MDNS_TEXT_1
\#define MDNS_TEXT_2
\#define MDNS_TEXT_2
\#define MDNS_TEXT_3

```
    #define MDNS_TEXT_3
```

```
"dev=cc3100"
```

"dev=cc3100"
"dev=cc31xx"
"dev=cc31xx"
"vendor=texas instruments"

```
    "vendor=texas instruments"
```

- Service to be 'listened-for' can be changed by modifying below macro in main.c:

```
#define DNS_SD_SERVICE "service-4._ipp._tcp.local"
```

- Edit following parameters in sl_common.h to establish connection w/ an AP:

```
#define SSID_NAME "<ap_name>"
#define SEC_TYPE SL_SEC_TYPE_OPEN
#define PASSKEY ""
```

- Build and run the application
- See the self explanatory logs on the terminal-program's console. On success, below message will be displayed on the terminal
- These services can be discovered w/ any service-discovery application:

| M |  |
| :---: | :---: |
| local. |  |
| File Transfer ftp.tcp. |  |
| IPP (Internet Printing Protocol) _ipp._tcp. |  |
| IPP (Internet Printing Protocol) _ipp._udp. |  |
| World Wide Web HTML-over-HTTP -http._tcp. |  |

Note: : This mDNS sample application registers services as 'unique services'. .i.e. if a service $w /$ the same name is already registered in the $n / w$, the new service registration will fail.

## Source Files briefly explained

i. main - Initializes the device, connects to an AP, registers three services for multicast and tries to get IP, port and text of the service by name.

## Limitations/Known Issues

- Trying to get a service multicast by the same board is not a valid use-case and is not supported


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