CC31xx mDNS

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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 v0.5.2 and upward releases. For documentation on older SDKs' examples, refer corresponding file in <cc3100-sdk-installation-location>\cc3100-sdk\docs\examples\

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 [I
 CC31xx_&_CC32xx_Terminal_Setting_Wiki ^[1]] has detailed instructions for configuring the terminal-program
- Multicast service parameters can be changed by changing below macros in main.c:

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

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

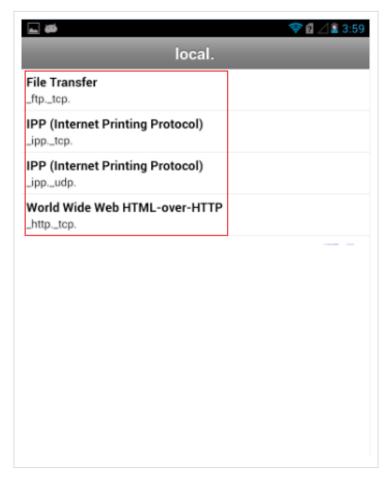
• Edit following parameters in **main.c** to establish connection w/ an AP:

```
#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:

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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

References

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

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