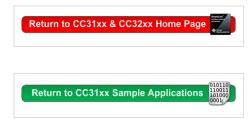
# **CC31xx SLS Get Time Application**

## Overview and application details

This sample application demonstrates how to connect to an SNTP server and request for time information. The application processes the received data and displays the time on console.

For information on how to use Visual-Studio or Eclipse to compile and run this application, refer to cc3100\_getting\_started\_guide\_swru375 <sup>[1]</sup> in '<cc3100/>docs' folder.



By default, this application communicates w/ CC3100 over SPI. The SDK has UART-Drivers as well for 'SimpleLink Studio' platform. For using the UART interface to communicate w/ CC3100, macro SL\_IF\_TYPE\_UART has to be defined in the application-project's properties. Also, 'COMM\_PORT\_NUM in main.c needs to be changed to the first com-port that gets enumerated for 'J6' of 'CC31xxEMUBOOST Brd'. In case four ports are getting enumerated, user should use the third com-port.

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\

## Source Files briefly explained

i. main - Initializes the device, connects to a AP, open a UDP socket, requests and processes the time information.

## **Usage**

- Prerequisite: Internet connectivity is required to work w/ this sample application
- Connect the board to PC and configure the terminal-program for seeing the logs [I
   CC31xx\_&\_CC32xx\_Terminal\_Setting] has detailed instruction for configuring the terminal-program
- Edit main.c to set the SNTP server's name (in variable SNTPserver) Any server from the below list can be used for demo

```
/*! ########################## List of SNTP servers #############################
                                                      location
             hostname
 *! ## ntp.inode.at
                             | 195.58.160.5
                                               | Vienna
 *! ## ntp3.proserve.nl
                             | 212.204.198.85 | Amsterdam
                              | 194.50.97.12 | Stuttgart, Germany
 *! ## ntpl.madavi.de
 *! ## ntp.spadhausen.com
                             | 109.168.118.249 | Milano - Italy
 *! ## ntp3.tcpd.net
                             | 23.23.128.218 | London, UK
 *! ## dmz0.la-archdiocese.net | 209.151.225.100 | Los Angeles, CA
 *! ## Optimussupreme.64bitVPS.com | 216.128.88.62 | Brooklyn, New York
 *! ## ntp.mazzanet.id.au
                             | 203.206.205.83 | Australia
                               | 200.160.0.8
 *! ## a.ntp.br
                                               | Sao Paulo, Brazil
  const char SNTPserver[MAX_SSID_LEN] = "ntp.inode.at"; /* Add one of the above servers */
```

- Build and launch the application using Visual-Studio or Eclipse.
- The application requests user for the AP's SSID and security parameters for establishing the connection. It also requests user for the time-zone for getting the time-data. Enter the required information on the console.

The application connects to the SNTP server and opens an UDP socket to communicate  $\mbox{w/}$  it. It receives and processes the time-information and displays it on the console

· On success, below message will be displayed on the terminal

## **Limitations/Known Issues**

None

### References

[1] http://www.ti.com/lit/pdf/swru375

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