

CC31xx Get Time Application

Overview and application details

Get-Time application connects to the SNTP server and requests for time information. It processes the received data and displays the time on console.

Source Files briefly explained

i. main - Initializes the device, connects to a AP, Open a UDP socket, Request and display time.

Usage

- Configure the terminal-program for seeing the log-prints - Refer QSG for more details
- Edit 'main.c' to set the SNTP server's name - Any server from the below list can be used for demo

```

/*! ##### List of SNTP servers
#####
*! ##
*! ##          hostname          |          IP          |
location
*! ##
-----
*! ## ntp.inode.at                | 195.58.160.5         | Vienna
*! ## ntp3.proserve.nl           | 212.204.198.85       | Amsterdam
*! ## ntp1.madavi.de             | 194.50.97.12         | Stuttgart,
Germany
*! ## 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
*! ## a.ntp.br                  | 200.160.0.8          | Sao Paulo,
Brazil
*!
#####
*/

const char SNTPserver[MAX_SSID_LEN] = "ntp.inode.at"; /* Add one of
the above servers */

```

- Edit 'main.c' and update the following parameters for the device to establish connection w/ the access-point

```

#define SSID_NAME      "<ap_name>"
#define SEC_TYPE       <security-type>
#define PASSKEY        ""
#define PASSKEY_LEN    strlen(PASSKEY)

```

- Edit 'main.c' and modify below values for below macros for settings the GMT time-offset can be changed by changing

the values for macro

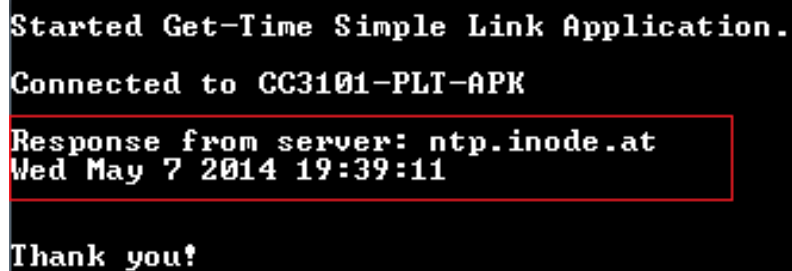
```
#define GMT_TIME_ZONE_HR      0
#define GMT_TIME_ZONE_MIN    00
```

- Build and launch the application

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

Note: AP should have internet connectivity for executing this sample application

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



```
Started Get-Time Simple Link Application.
Connected to CC3101-PLT-APK
Response from server: ntp.inode.at
Wed May 7 2014 19:39:11
Thank you!
```

Limitations/Known Issues

None

Article Sources and Contributors

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