CC31xx XMPP Reference Application

Overview and application details

This is a sample application demonstrating how to connect and work with XMPP server using CC3100. It receives/sends an XMPP messages from/to the server.

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\examples**

Source Files briefly explained

1. main - Initializes the device, connects to an access-point and configures the email
2. xmpp - Wrapper functions to configure/connect to XMPP-Server and send/receive chat-messages. These functions are called from main
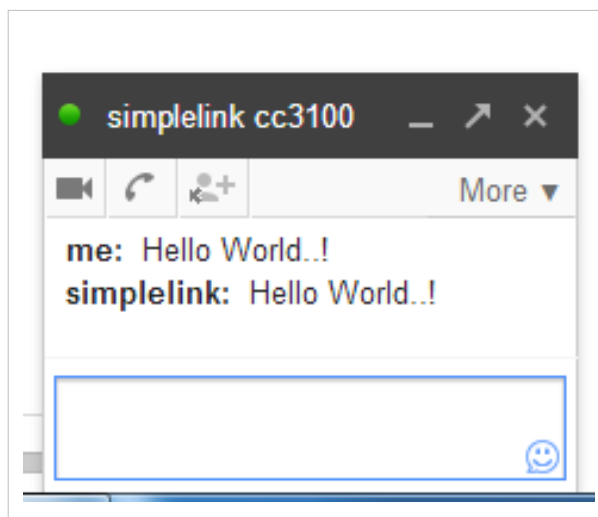3. base64 - Functions to convert the raw bytes in quasi-big-endian order to Base64 string

Usage

Prerequisite: This application requires an access-point with internet connectivity

- Connect the board to a Windows-PC and configure the terminal-program for seeing the logs - [| CC31xx_&_CC32xx_Terminal_Setting_Wiki [1]] has detailed instructions for configuring the terminal-program

- Open sl_common.h and change **SSID_NAME**, **SEC_TYPE** and **PASSKEY** as per your access-point properties - SimpleLink device will connect to this AP when the application is executed

- Open config.h and change values for **XMPP_USER** and **XMPP_PWD** for setting up the xmpp account credentials.

- Log-in your 'gtalk' account and add configured xmpp account to your friends list

- Build the application. Download and execute it on the target device

- Once the connection is established successfully, wait for configured account to appear ONLINE in your friends' list

- When ONLINE, send messages to CC3100. The device shall receive and relay the messages back to the sender

- See the self explanatory logs on the terminal-program's console. On success, below message will be displayed on the terminal

Limitations/Known Issues

- The size of the message is currently limited to 48
- Since example doesn't implement a complete XMPP stack:
1. Retreiving the full friend roster isn't supported
2. Checking the remote friend status (online, offline) before sending him a message is not supported

References

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

Article Sources and Contributors

CC31xx XMPP Reference Application *Source*: http://processors.wiki.ti.com/index.php?oldid=184948 *Contributors*: A0131814, A0132173, A0221015, Codycooke, Malokyle

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