SPP_Master_Sniff_Test_Procedure

User Guide

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About this Document

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1 Application Overview

1.1 Overview

This application demonstrates how to configure the device in Master mode and establish SPP profile connection with remote Master device and and initiating sniff mode. In this Application, Redpine module configures in Master mode and connects SPP profile level connection with remote device. After successful SPP connection, Application will initiate sniff mode.

1.2 Sequence of Events

This Application explains user how to:

- Configure Redpine module to act as Master
- Configure remote device in discoverable and connectable mode
- Initiate SPP level connection with the Smartphone
- Initiate Sniff mode

2 Application Setup

The WiSeConnect parts require that the host processor is connected to the WiSeConnect using either SPI, UART or USB host interface. The host processor firmware needs to properly initialize the selected host interface. The Redpine Wireless SAPI framework provides necessary HAL APIs to enable variety of host processors. The WiSeMCU parts offer integrated wireless connectivity and does not require host interface initialization.

2.1 WiSeMCU / WiSeConnect based Setup Requirements

- Windows PC with KEIL or IAR IDE in case of WiSeMCU
- Windows / Linux PC with Host interface (UART/ USB-CDC/ SPI/ USB) in case of WiSeConnect
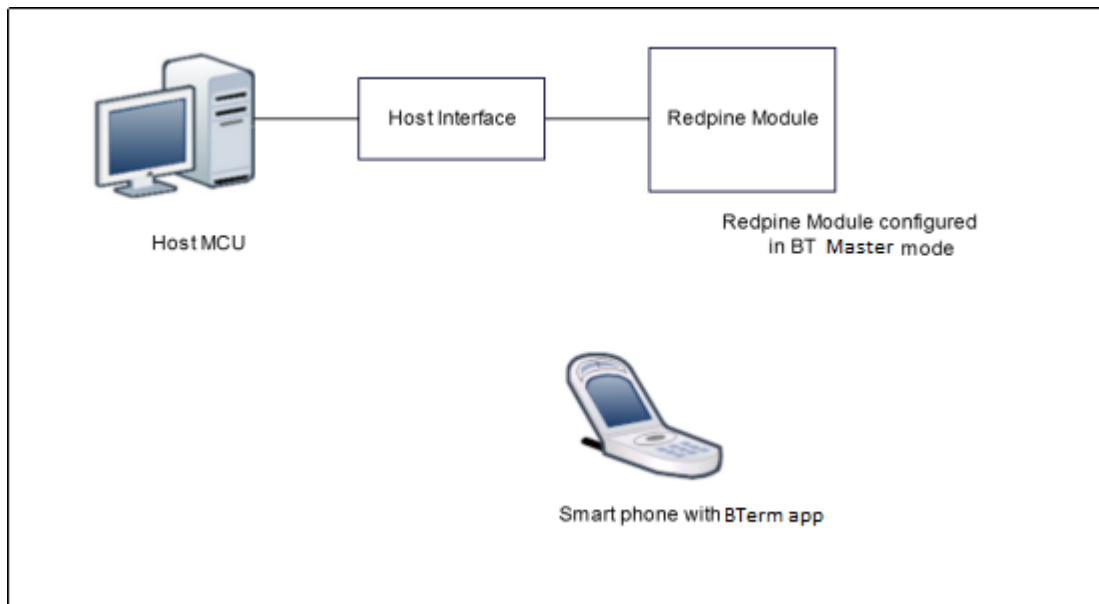- Redpine module
- BT master device

Figure 1: Setup diagram

3 Configuration and Execution of the Application

3.1 Configuring the Application

1. Open *rsi_bt_config_DEMO_34.h* file and update/modify following macros,
   RSI_BT_LOCAL_ANME refers name of the Redpine module to appear during scanning by remote devices.
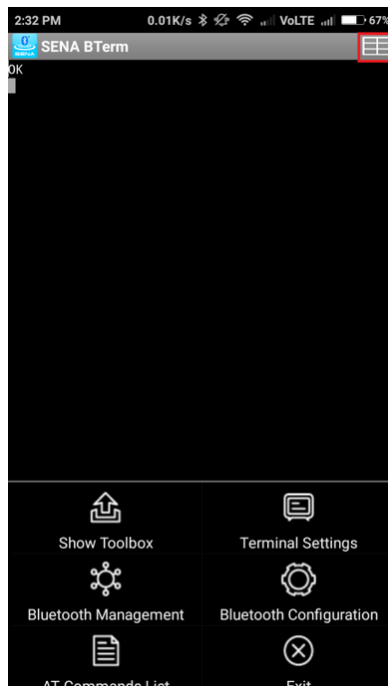
   #define RSI_BT_LOCAL_NAME   "BT_SPP_MASTER_SNIFF"

   PIN_CODE refers four bytes string required for pairing process.

   #define PIN_CODE   "1234"

3.2 Executing the Application

1. Open SEMA BTerm app In android phone and turn on Bluetooth
2. Click on the table symbol which is at the right side and then select the "Bluetooth Management" to the configure the application in listen mode


3. Now click on the "listen to inquiry and page scan" and then change scan timeout as 0 for infinite timeout.
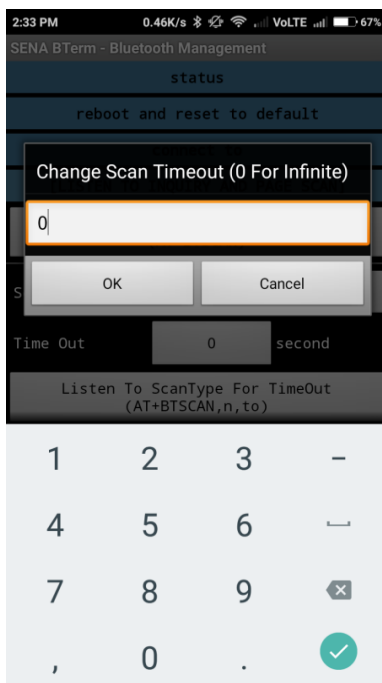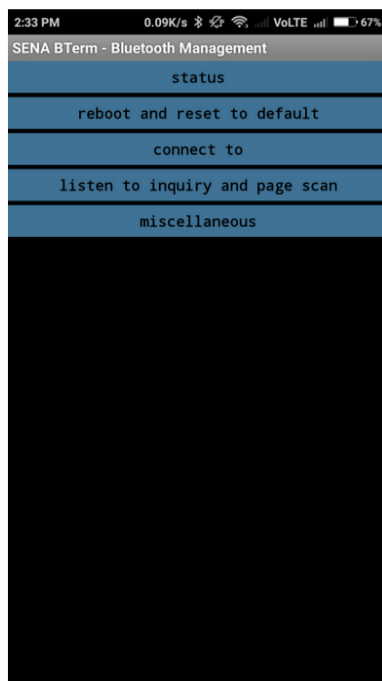
4. Now put the application in discoverable mode by clicking "Listen to Scan Type for TimeOut".
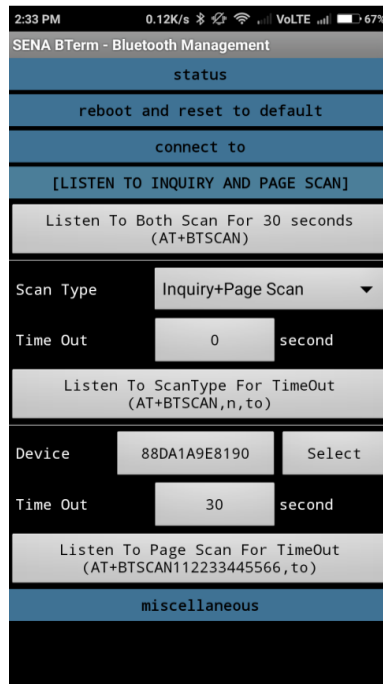
5. Execute the program, Redpine module initializes the SPP profile and connects to remote device.

6. After paring is initiated from Redpine module, Pairing request will pop-up at smartphone side and issue secret key which is given at Redpine module (PIN_CODE) side.
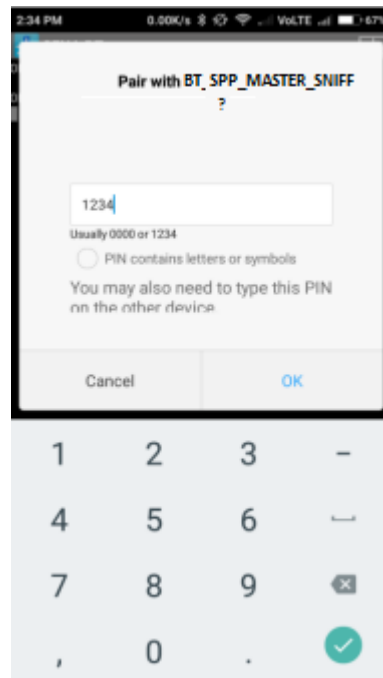
7. After successful pair, initiate SPP connection from Redpine module and give the secret key for receiving pairing request at remote device side.

8. Redpine module will enter into sniff mode.