**Date Submitted: December 10, 2019**

A CC1352R1 will be set up as a collector module and a CC1350 will be setup as a sensor module.

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**Task 01 :**

Youtube Link: Task 3’s video showing both collector and sensor running https://youtu.be/Fz9JTOFhRGI

**Modified Code:**

**Code is not modified as the function shown below already displays a temperature value received from the sensor module.**

**void** Csf\_deviceSensorDataUpdate(ApiMac\_sAddr\_t \*pSrcAddr, int8\_t rssi,

Smsgs\_sensorMsg\_t \*pMsg)

{

CUI\_ledToggle(csfCuiHndl, CONFIG\_LED\_GREEN);

**#ifndef** POWER\_MEAS

CUI\_statusLinePrintf(csfCuiHndl, deviceStatusLine, "Sensor - Addr=0x%04x, Temp=%d, RSSI=%d",

pSrcAddr->addr.shortAddr, pMsg->tempSensor.ambienceTemp, rssi);

CUI\_statusLinePrintf(csfCuiHndl, numJoinDevStatusLine, "%x", getNumActiveDevices());

**#endif** /\* endif for POWER\_MEAS \*/

**#if** defined(MT\_CSF)

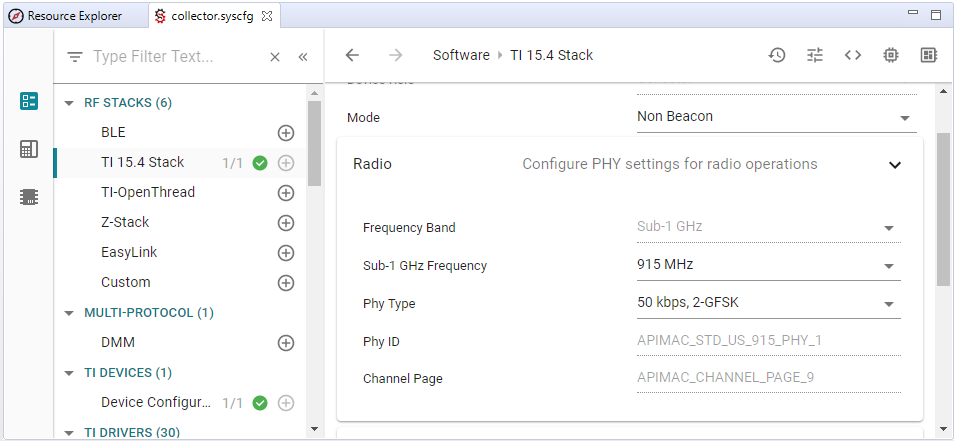
MTCSF\_sensorUpdateIndCB(pSrcAddr, rssi, pMsg);

**#endif** /\* endif for MT\_CSF \*/

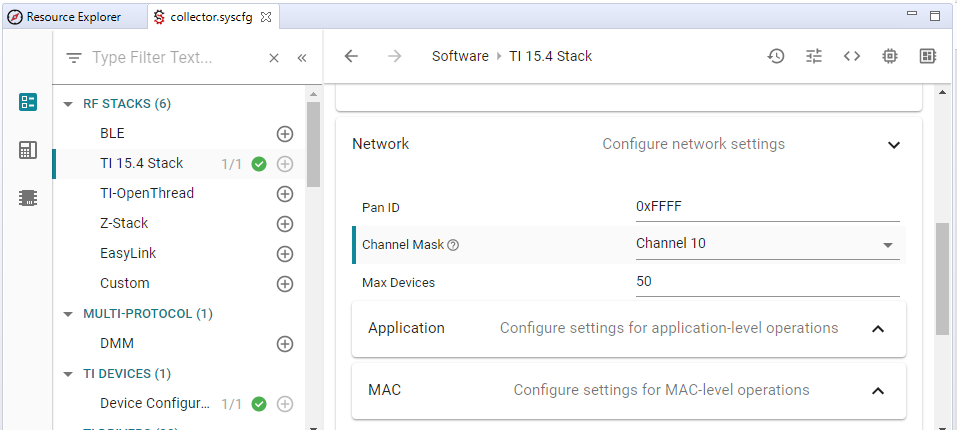
}

**Screenshots**

**Collector is set for 50kbps and US-compatible PHY**

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**Only Channel 10 is enabled.**

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**Task 02 :**

Youtube Link: Task 3’s video showing both collector and sensor running https://youtu.be/Fz9JTOFhRGI

**Modified Code:**

**Channel mask set to channel 10 using**

**#define** CONFIG\_CHANNEL\_MASK { 0x00, 0x04, 0x00, 0x00, 0x00, 0x00, \

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, \

0x00, 0x00, 0x00, 0x00, 0x00 }

**Screenshots:**

**------------------------------------------------------------------------------------**

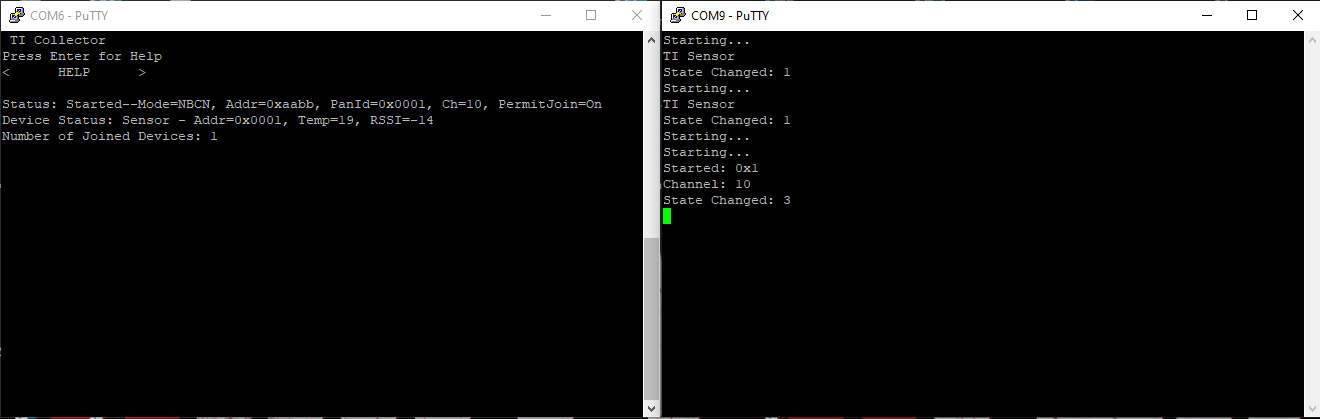
**Task 03 :**

Youtube Link: https://youtu.be/Fz9JTOFhRGI

**Modified Code:**

**Screenshots:**

**UART Screen capture**

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**Task 04:**

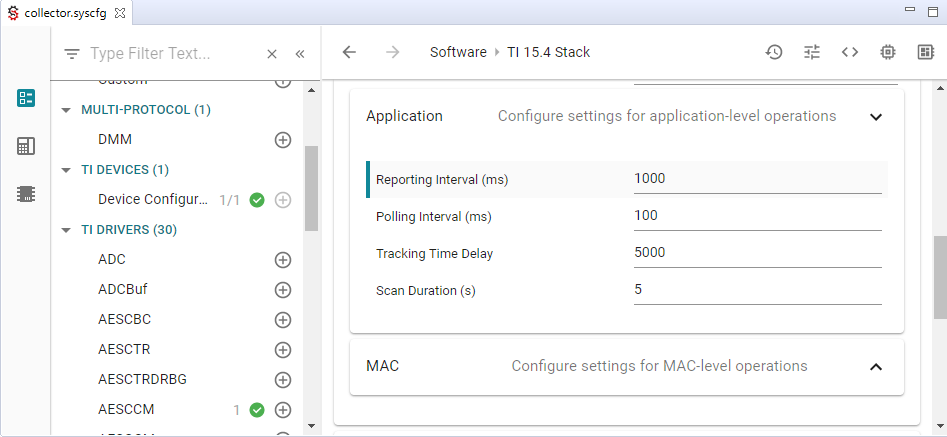
Youtube Link: https://youtu.be/b\_lpkOnEAV4

**Sensor Modification:**

**#define** CONFIG\_REPORTING\_INTERVAL 500

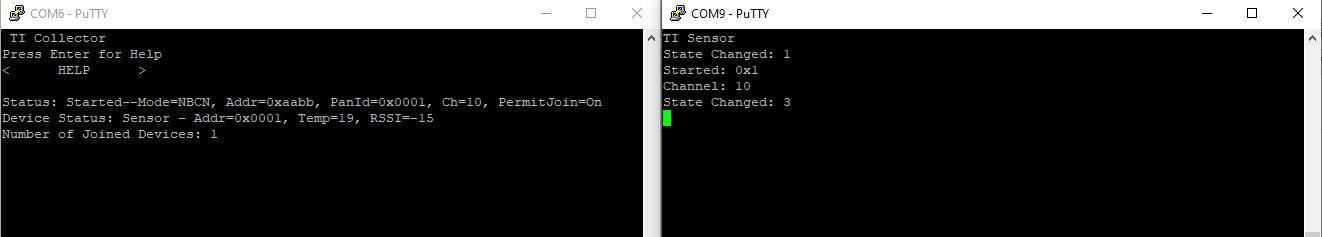
**Collector Modification:**

**Changed so that collector reports every second and polls ever 100ms.**

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**Screenshots:**

**UART Screen capture**

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