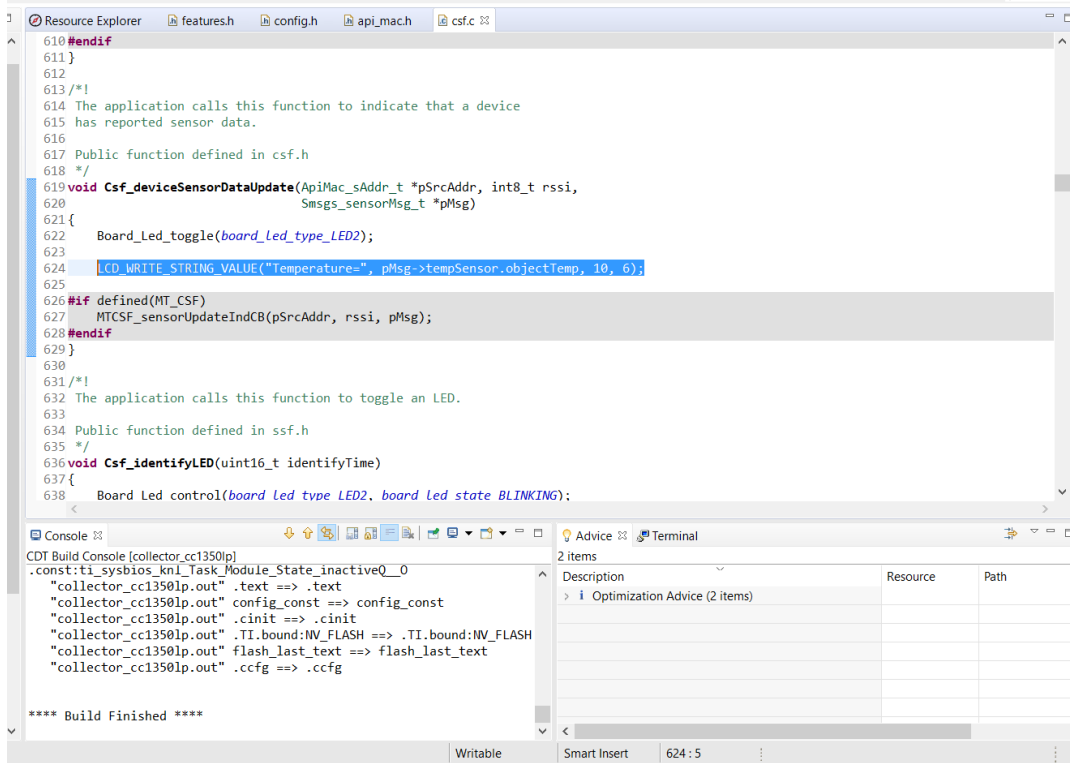


Date Submitted: 11-25-2018

Task 1+2: Building and loading the collector example and the sensor example.

```
163 #define CONFIG_CHANNEL_MASK { 0x00, 0x00, 0x04, 0x00, 0x00, 0x00, \  
164                               0x00, 0x00, 0x00, 0x00, 0x00, 0x00, \  
165                               0x00, 0x00, 0x00, 0x00, 0x00 }  
166 /*!
```

Channel mask config for both collector and sensor.



Modified line from csf.c on collector to print out temperature. (highlighted blue)

Youtube Link: No video required for this part.

Modified Code: highlighted in image above.

Task 03: Using the Collector and Sensor



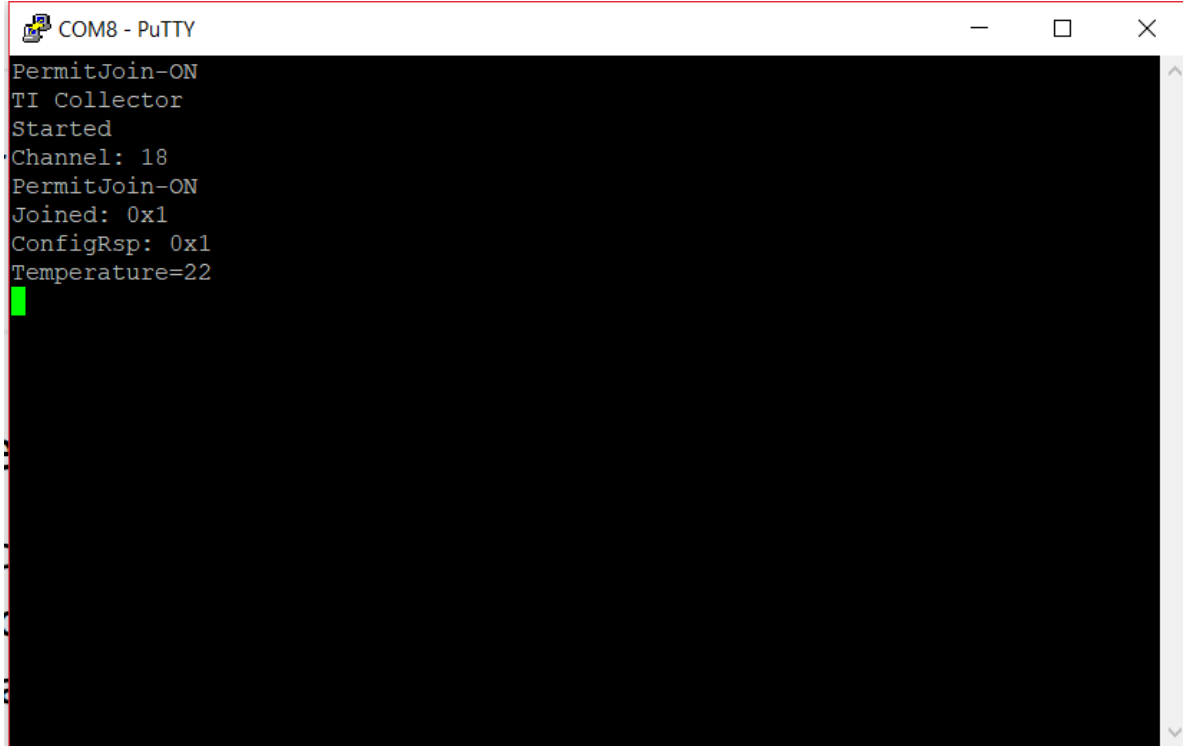
```
COM5 - PuTTY
Starting...
TI Sensor
State Changed: 1
█
```

Sensor UART. Successfully starting.



```
COM8 - PuTTY
PermitJoin-ON
TI Collector
Started
Channel: 18
█
```

Collector UART. Successfully starting.



```
COM8 - PuTTY
PermitJoin-ON
TI Collector
Started
Channel: 18
PermitJoin-ON
Joined: 0x1
ConfigRsp: 0x1
Temperature=22
█
```

Collector UART. Sensor has joined and sent over temperature.

Youtube Link: <https://youtu.be/EeSAvy8vkXU>

Modified Code: No code was modified.

Task 04: Updating the sensor's reporting rate

```
218 #if (((CONFIG_PHY_ID >= APIMAC_MRFSK_STD_PHY_ID_BEGIN) && (CONFIG_PHY_ID <= APIMAC_MRFSK_GENERIC_PHY_ID_BEGIN)) || \
219      ((CONFIG_PHY_ID >= APIMAC_GENERIC_US_915_PHY_132) && (CONFIG_PHY_ID <= APIMAC_GENERIC_ETSI_863_PHY_133)))
220 /*! Default Polling interval in milliseconds. It will get updated upon reception
221 of a config request message */
222 #define CONFIG_POLLING_INTERVAL 100
223 /*! PAN Advertisement Solicit trickle timer duration in milliseconds */
224 #define CONFIG_PAN_ADVERT_SOLICIT_CLK_DURATION 6000
225 /*! PAN Config Solicit trickle timer duration in milliseconds */
226 #define CONFIG_PAN_CONFIG_SOLICIT_CLK_DURATION 6000
227 /*! Default Reporting Interval - in milliseconds. It will get updated upon
228 reception of a config request message */
229 #define CONFIG_REPORTING_INTERVAL 500
230 #else
231 /*! Default Polling interval in milliseconds. It will get updated upon reception
232 of a config request message */
233 #define CONFIG_POLLING_INTERVAL 60000
234 /*! PAN Advertisement Solicit trickle timer duration in milliseconds */
235 #define CONFIG_PAN_ADVERT_SOLICIT_CLK_DURATION 60000
236 /*! PAN Config Solicit trickle timer duration in milliseconds */
237 #define CONFIG_PAN_CONFIG_SOLICIT_CLK_DURATION 60000
238 /*! Default Reporting Interval - in milliseconds. It will get updated upon
239 reception of a config request message */
240 #define CONFIG_REPORTING_INTERVAL 600000
241 #endif
```

Reporting and Polling intervals changed on sensor config. (highlighted in yellow)

Name: Enrique Saldana

Partner: Damian Cisneros

Github root directory: <https://github.com/enri10>

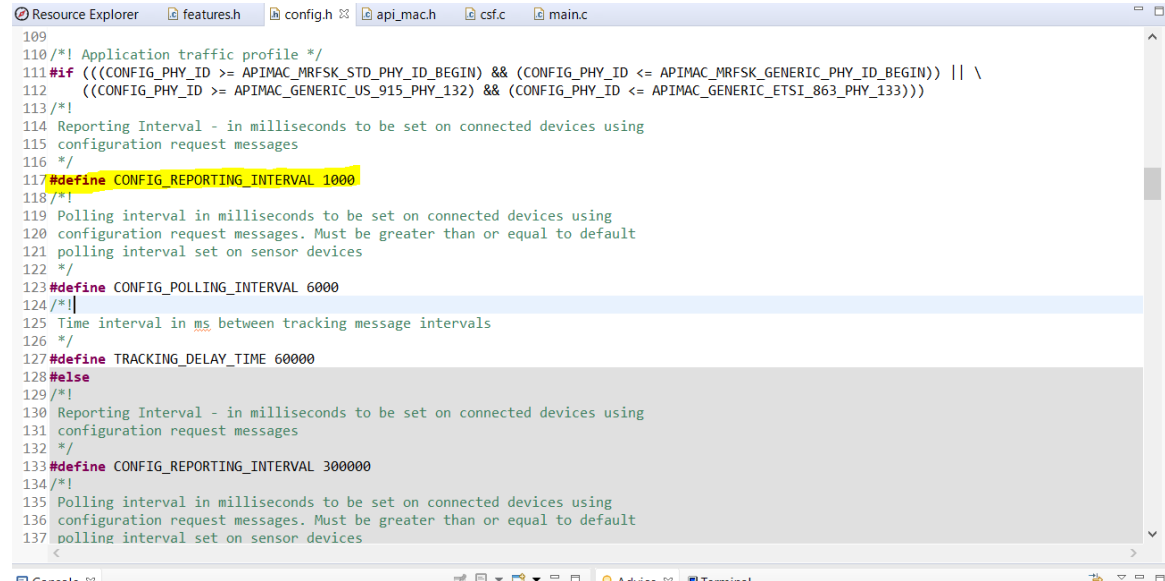
```
103 /* Polling Interval Min and Max (in milliseconds) */
```

```
104 #define MIN_POLLING_INTERVAL 100
```

```
105 #define MAX_POLLING_INTERVAL 10000
```

```
106
```

Minimum polling interval changed in sensor sensor.c. (highlighted in yellow)



```
109
110 /*! Application traffic profile */
111 #if (((CONFIG_PHY_ID >= APIMAC_MRFSK_STD_PHY_ID_BEGIN) && (CONFIG_PHY_ID <= APIMAC_MRFSK_GENERIC_PHY_ID_BEGIN)) || \
112      ((CONFIG_PHY_ID >= APIMAC_GENERIC_US_915_PHY_132) && (CONFIG_PHY_ID <= APIMAC_GENERIC_ETSI_863_PHY_133)))
113 /*!
114 Reporting Interval - in milliseconds to be set on connected devices using
115 configuration request messages
116 */
117 #define CONFIG_REPORTING_INTERVAL 1000
118 /*!
119 Polling interval in milliseconds to be set on connected devices using
120 configuration request messages. Must be greater than or equal to default
121 polling interval set on sensor devices
122 */
123 #define CONFIG_POLLING_INTERVAL 6000
124 /*!
125 Time interval in ms between tracking message intervals
126 */
127 #define TRACKING_DELAY_TIME 60000
128 #else
129 /*!
130 Reporting Interval - in milliseconds to be set on connected devices using
131 configuration request messages
132 */
133 #define CONFIG_REPORTING_INTERVAL 300000
134 /*!
135 Polling interval in milliseconds to be set on connected devices using
136 configuration request messages. Must be greater than or equal to default
137 polling interval set on sensor devices
```

Reporting interval change for collector config. (highlighted in yellow)

Youtube Link: <https://youtu.be/XFslj5QEuDs>

Modified Code: Highlighted in yellow on images above.