How to Change Device in IAR Workspace for the CC2541/43/44/45 Peripherals Software Examples Projects

1 Change Device from CC2543 to CC2541.

1.1 Introduction.

In this guide the reader will be guided on how to change the device in the IAR workspace from a CC2543 device with 32 KB flash memory to a CC2541 device with 256 KB of flash memory.

1.2 Enter Project Options.

To enter the project options, simply right click on the project and choose "Options…" as shown below in *Figure 1* - Enter Project Options..
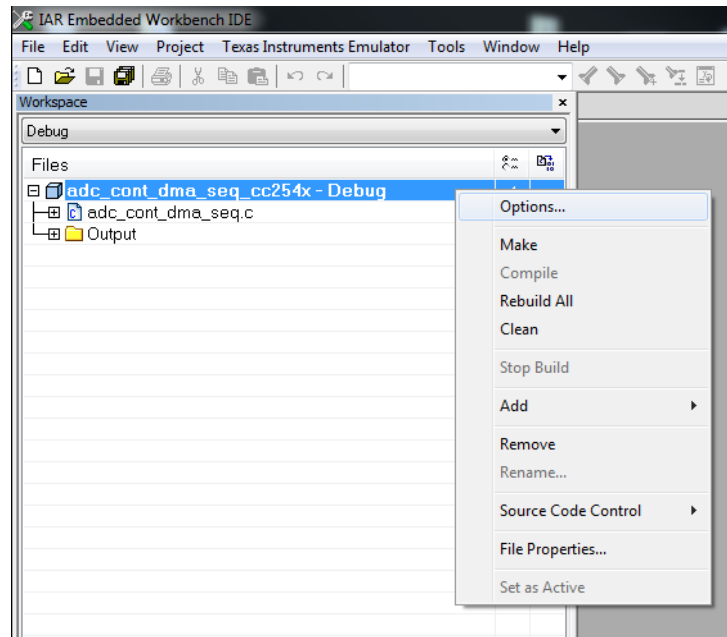

Figure 1 - Enter Project Options.

1.3 Change Device.

The next step is to go to the "General Options" tab and change the device from CC2543F32 to CC2541F256. This is illustrated in Figure 2 - Target Settings for CC2543 Device. and Figure 3 - Target Settings for CC2541 Device.. Here the reader can also observe the target settings used to run these projects.
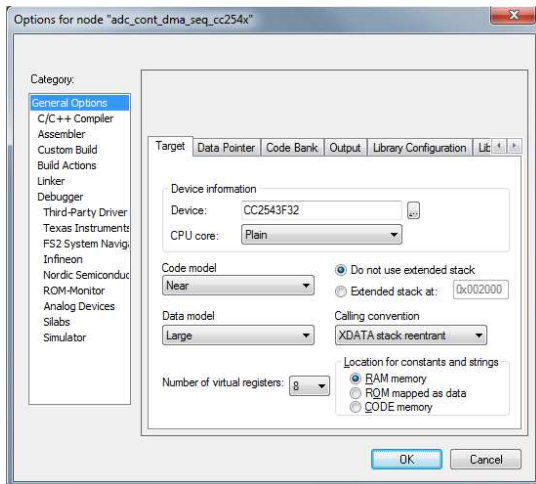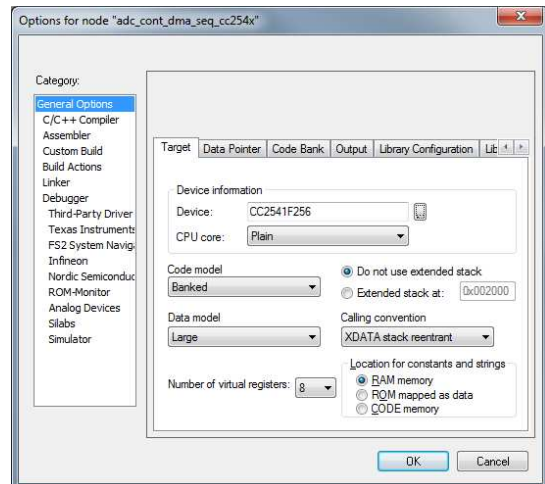
Figure 2 - Target Settings for CC2543 Device.

Figure 3 - Target Settings for CC2541 Device.

1.4 Change Chip Definitions in C/C++ Preprocessor.

To be able to create one source file that supports all the four different devices (CC2541, CC2543, CC2544 and CC2545), different device specific code had to be separated trough the use of conditional #if statements. When changing to the CC2541 device simply change the "chip=2543" to "chip=2541" as shown in Figure 4 - Defining Chip Value for C/C++ Preprocessor.
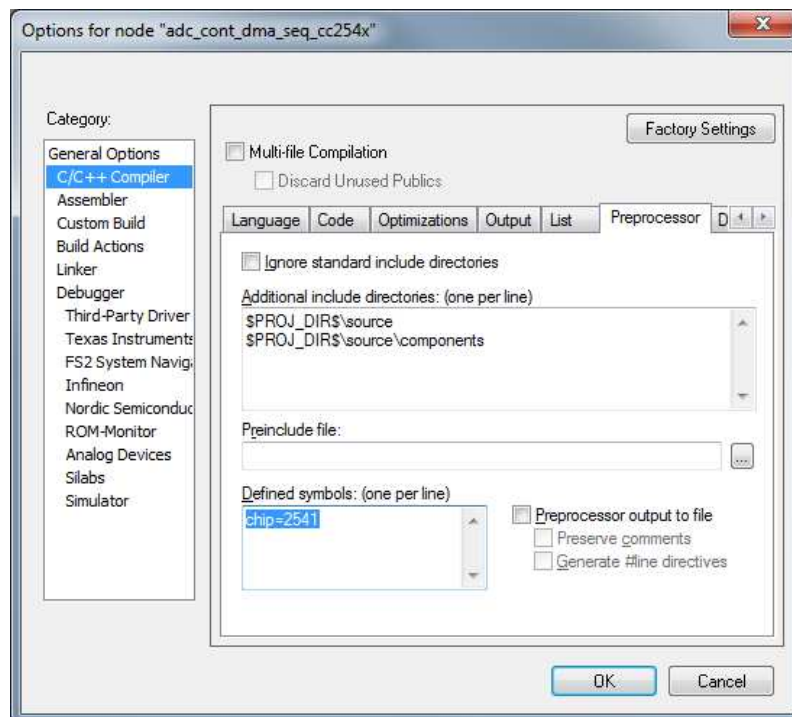

Figure 4 - Defining Chip Value for C/C++ Preprocessor.

This has the same effect as placing the following definition at the very top in the main source file:

#define chip   2541

Now the project is ready to be compiled and run with the CC2541 device.