06.09.2019

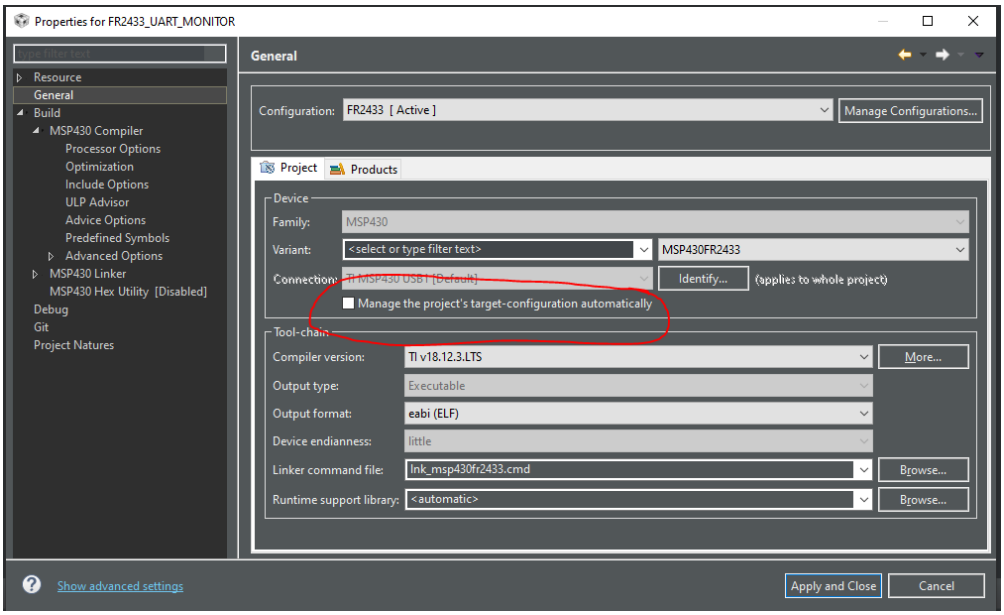
Quick guide: UART Monitor example

Steps to use the UART Monitor in CCS v.9.x.x

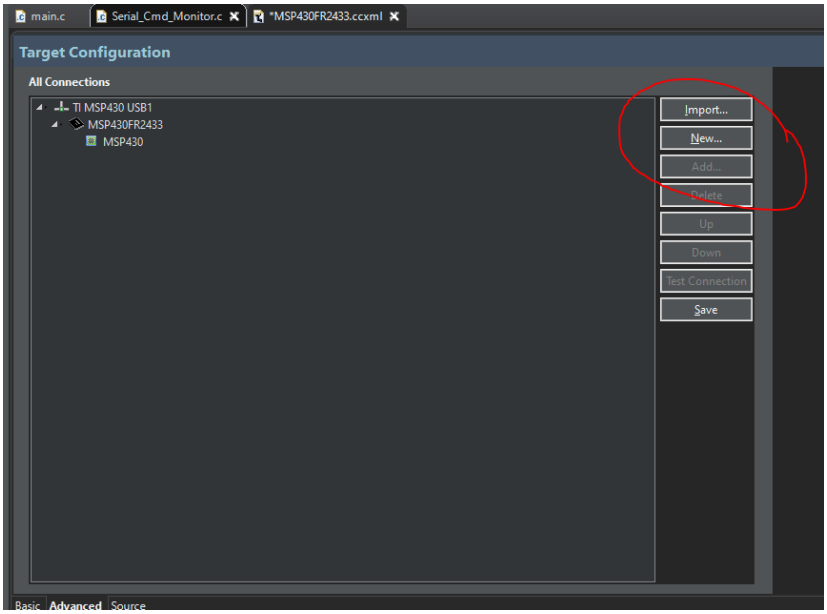
1. Clone the repository from git, and build the project in CCS v.9

   https://github.com/ben5en/MSP430_UartMonitor

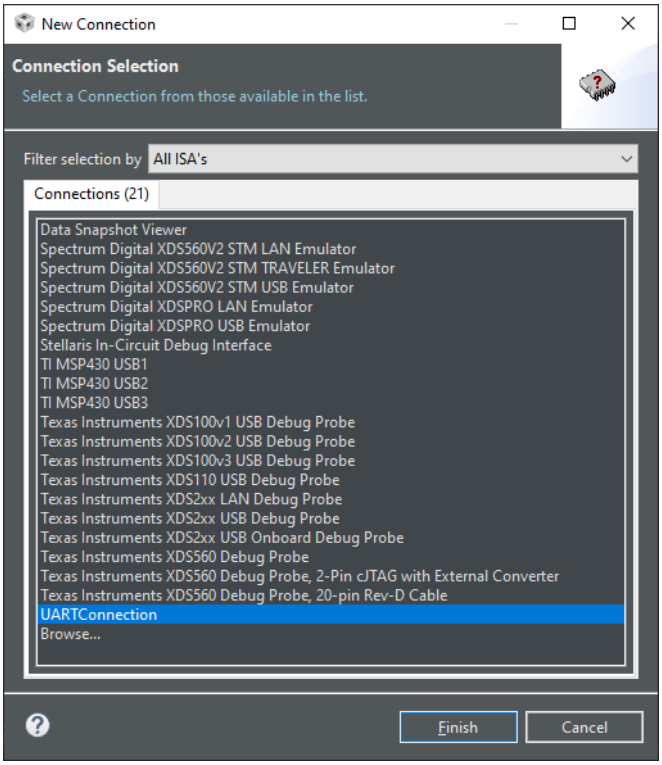
2. Disable „Manage the project's target-configuration automatically“ in your project properties



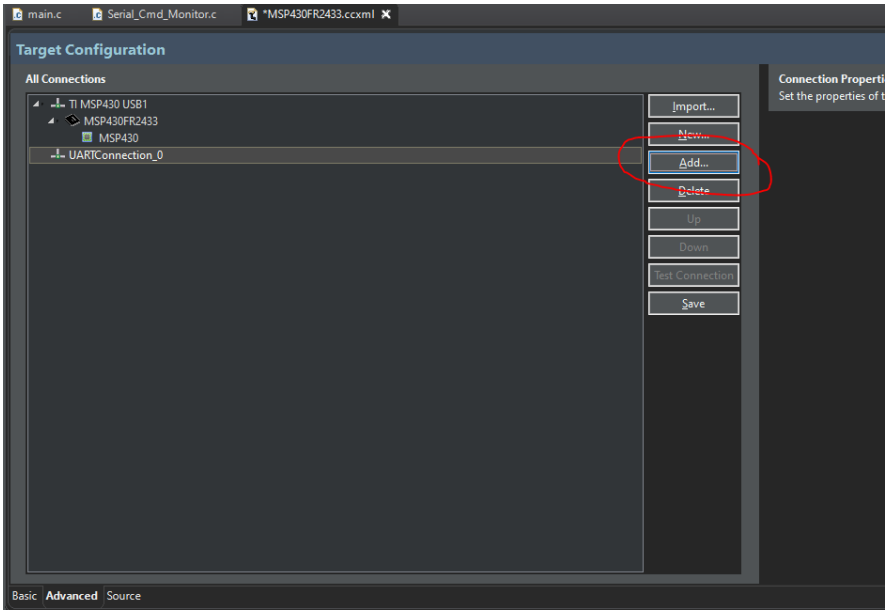
3. Go to the target configuration file and click on „New…“



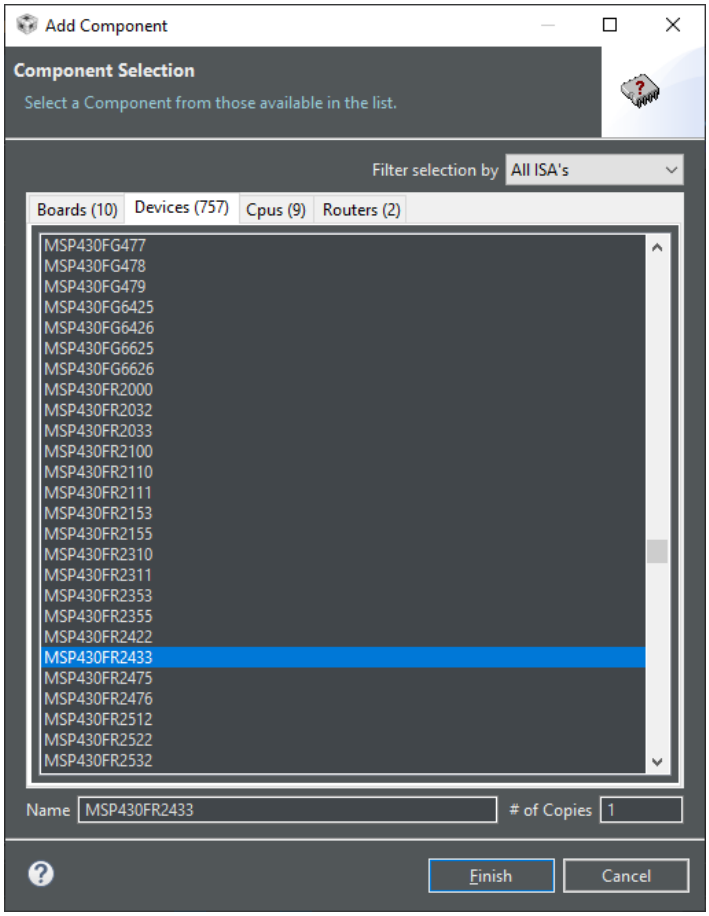
4. Select „UARTConnection“



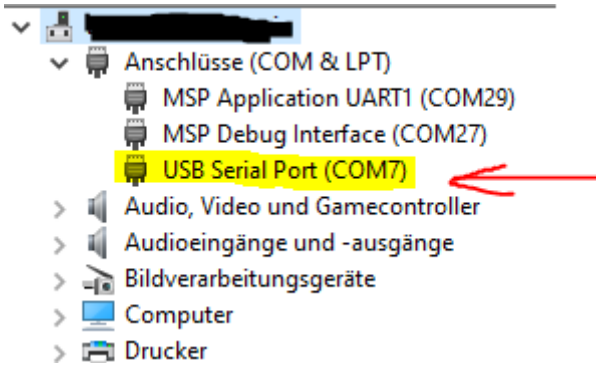
5. Go back to the target configuration file and select „UARTConnection_0“.
6. Click on „Add…“



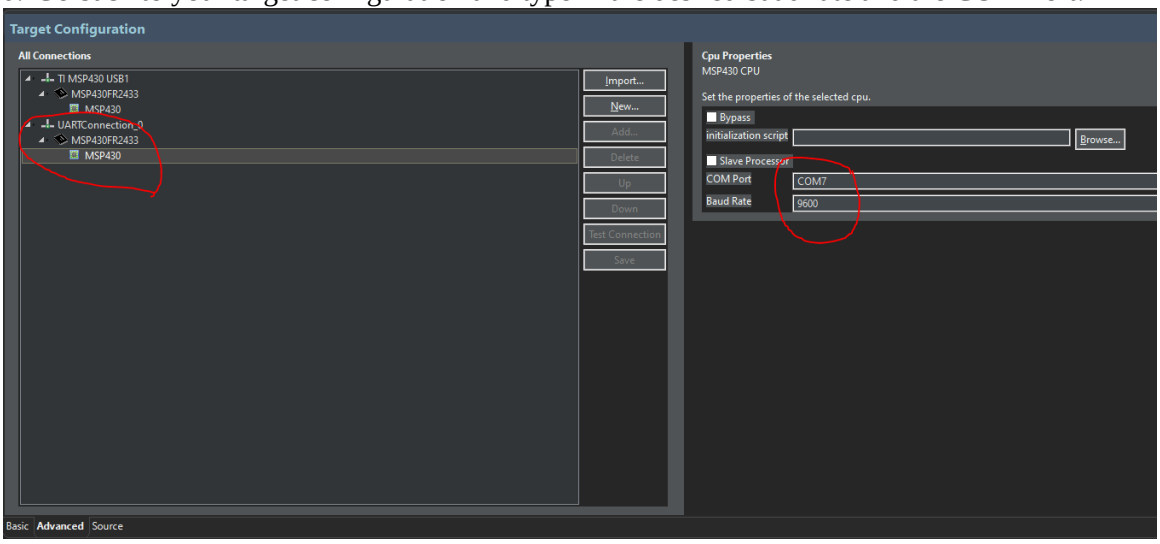
7. Search for „MSP430FR2433“ and click „Finish“



8. Unfortunately, in many cases the backchannel UART (you'll find them on various launchpads) function is too slow. Therefore, it is recommended to use an external serial to USB adapter.
9. Have a look at your device manager to specify the COM port of your external serial to USB adapter (in this case it is COM7).

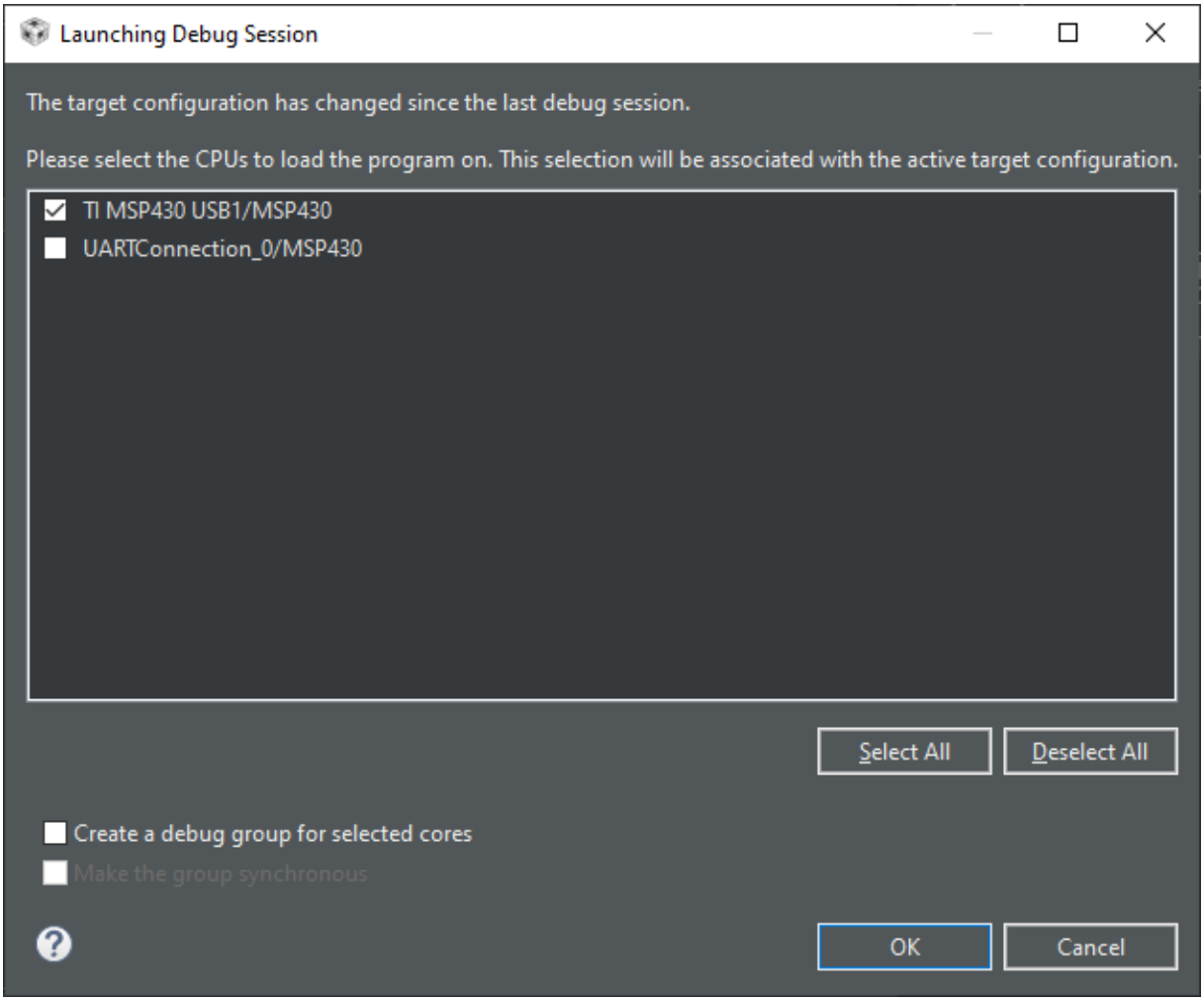


10. Go back to your target configuration and type in the desired baud rate and the COM Port:

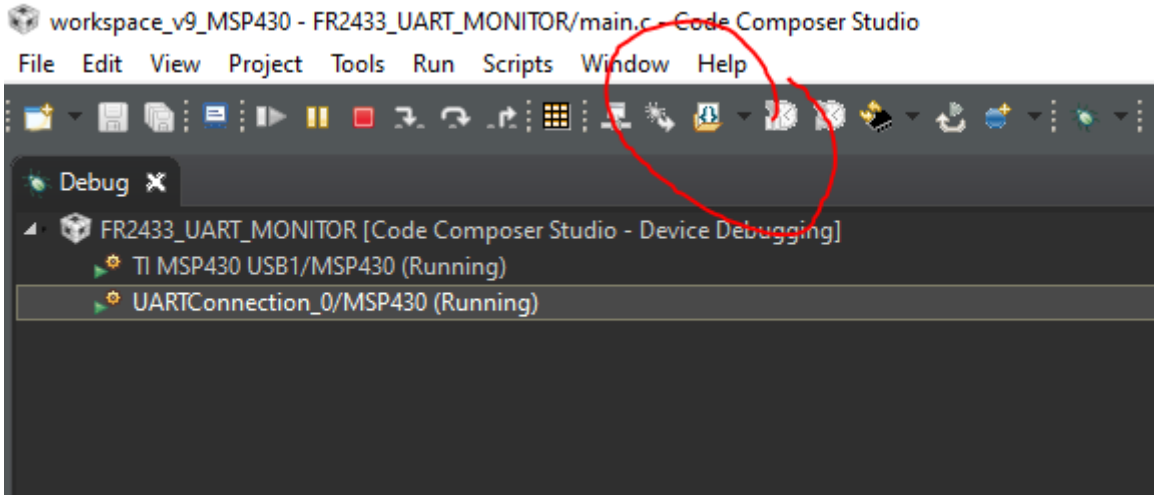


11. Start the debug session. It is possible that the following window appears:

- **In this case, deselect the UARTCommunication_0!**



12. You should see both, the TI MSP430 debugger connection as well as the UARTConnection_0
13. Click „run“ to start the controller and the debug session
14. Select the UARTConnection_0 and click „Load Symbols“ in the folder tab. Select the project corresponding .map – file, if it is not already selected.



15. In the Expressions window you should be able to type in „gCounter“ – after this click on the continuous refresh button (halt symbol with doubled arrows) and you should see gCounter count up while your MSP is running!