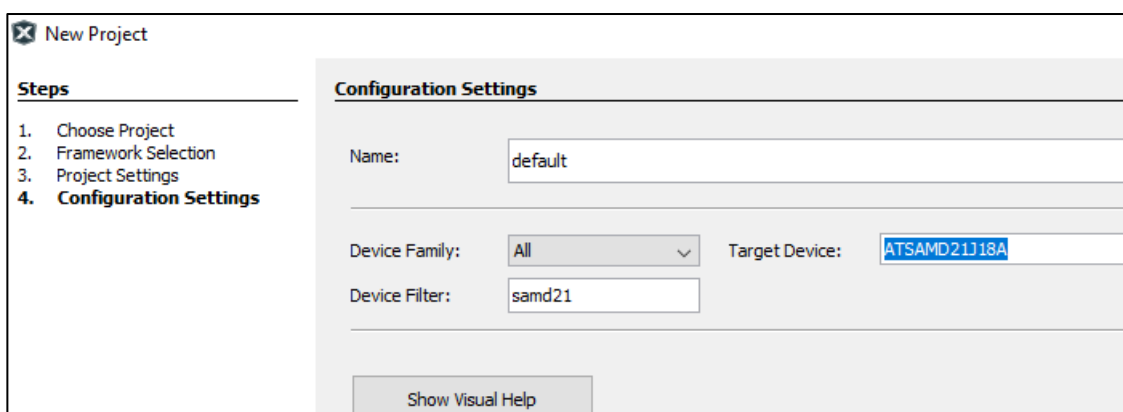
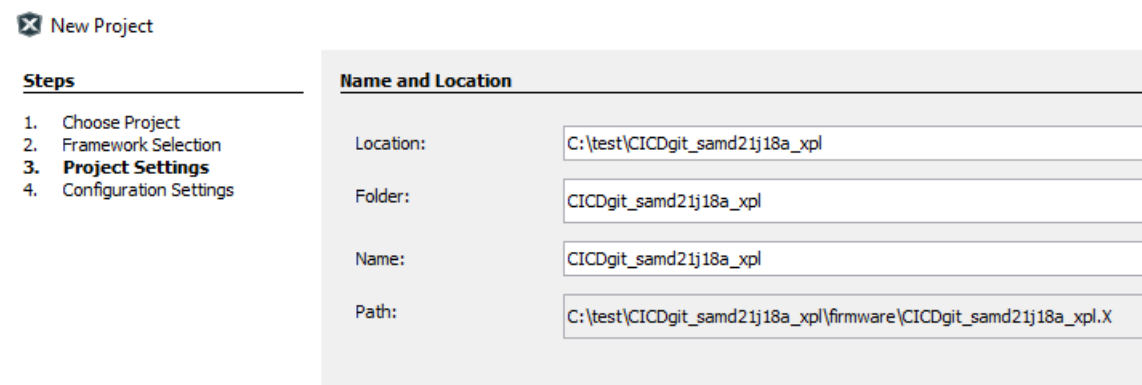
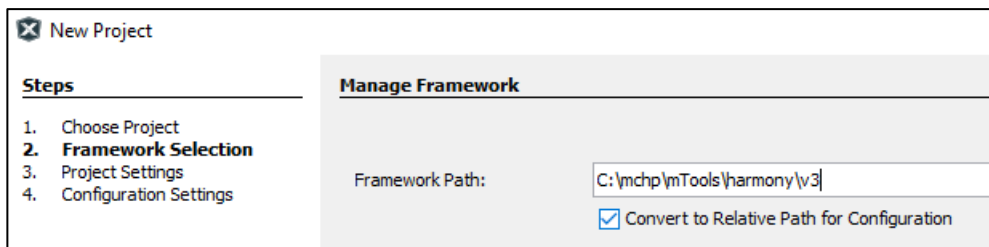
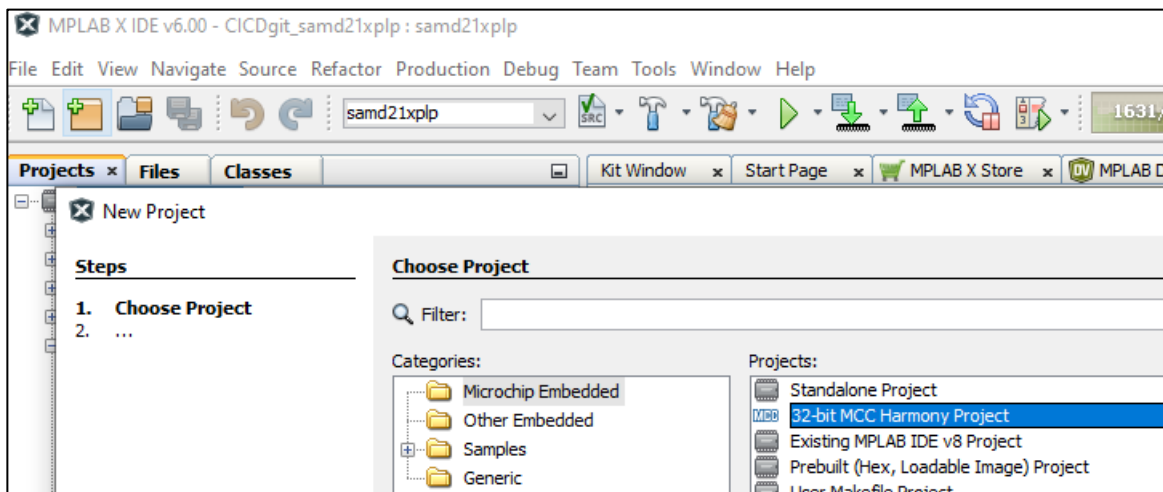


Short description on how the used H3-prj is created+config'd with Harmony3 (SL, 20.7.2022)

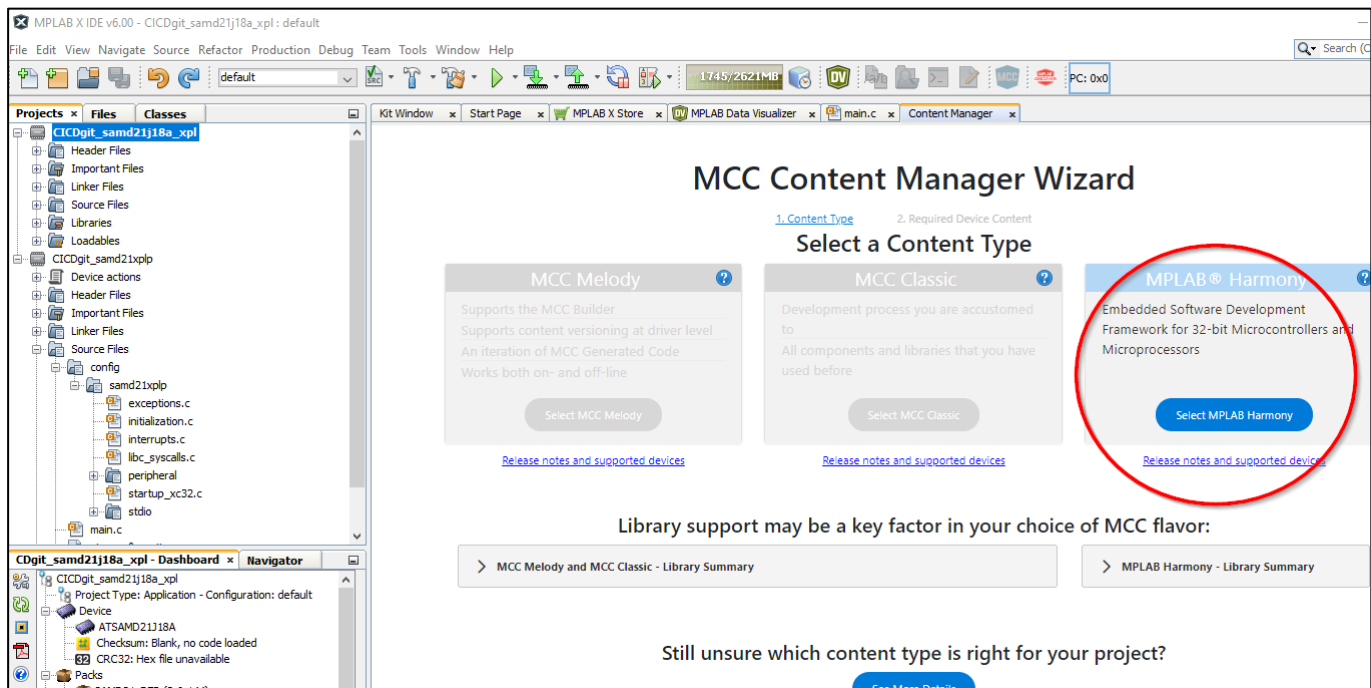
Prj-creation

Versions used 'MPLABX-v6.00, XC32-v2.41, MCCplugin-v5.1.13' **BUT any version should work**
orig doc in <https://github.com/stefanluethin-microchip/CICDgh_samd21xplp>

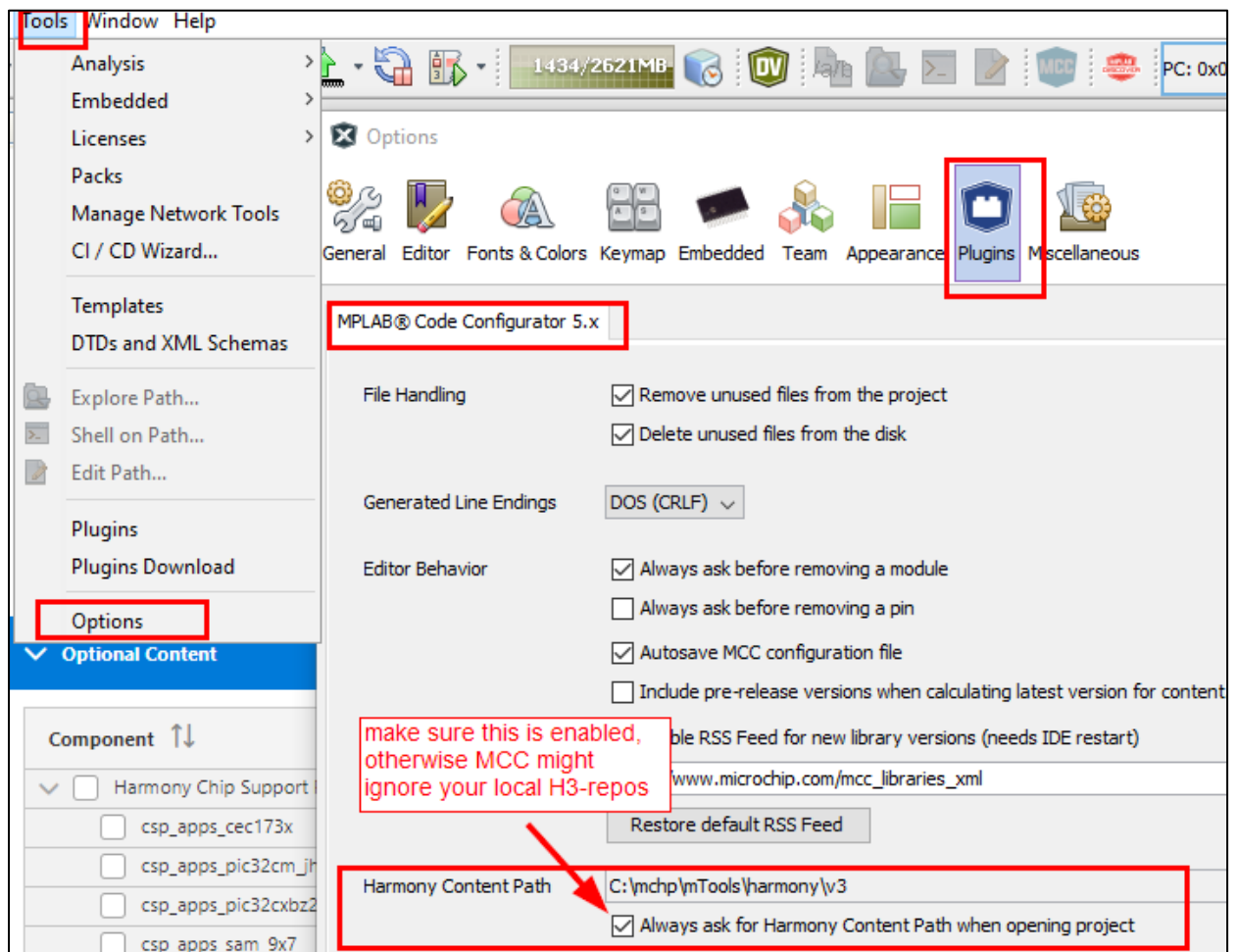
Create new MCC-H3 project with MPLABX-v6.00 integrated MCC-v5.1.13-plugin



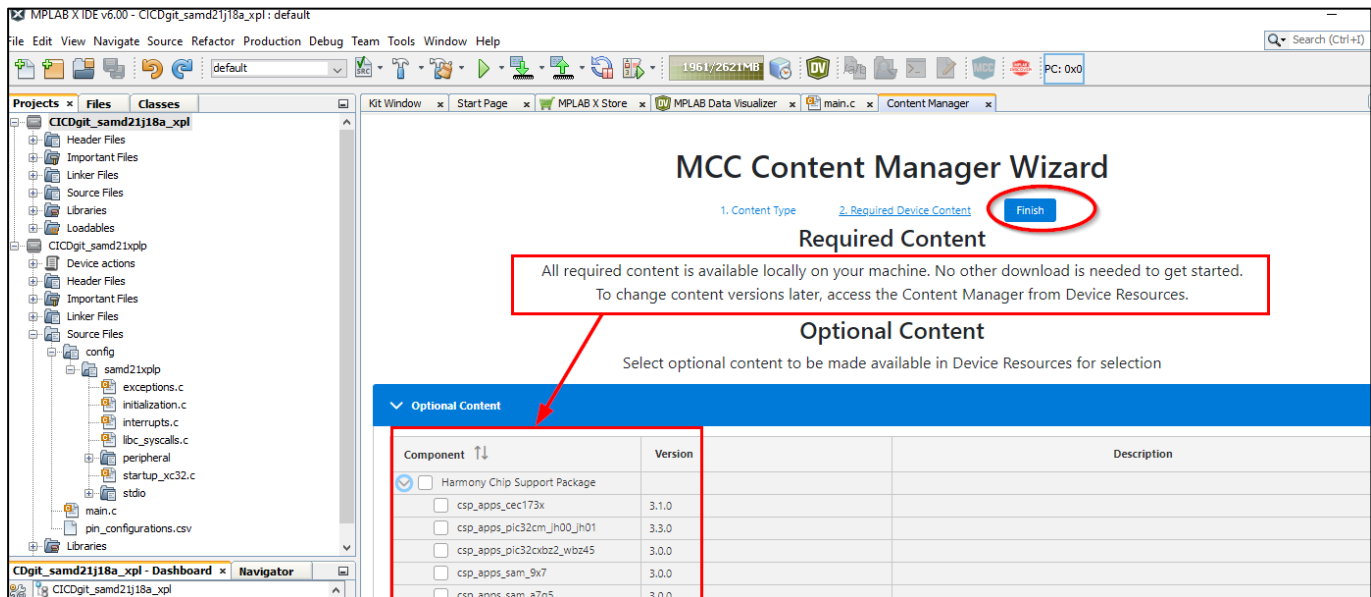
Next selection to use H3-content



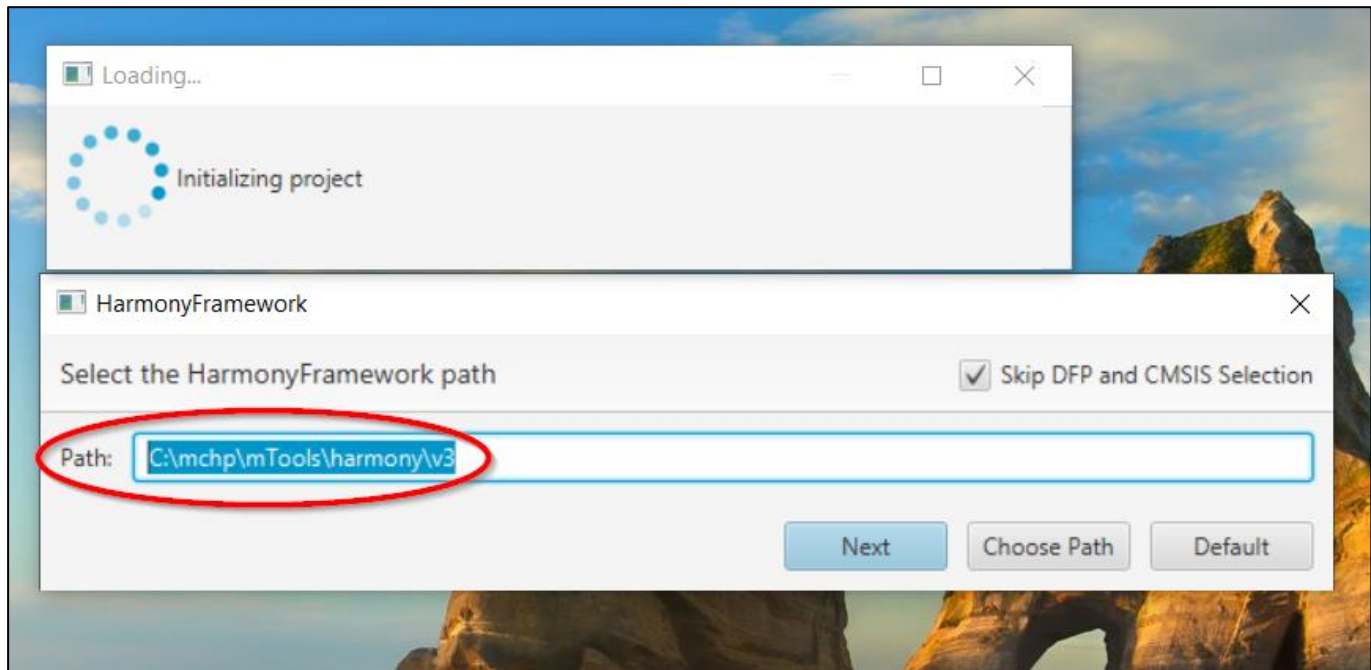
Assuming you've all required H3-repos downloaded already (->if not use the ContentManager to do so) **AND** the H3-framework path set in MPLABX-menu: tools-options-plugins-mcc/h3-path, shown here:



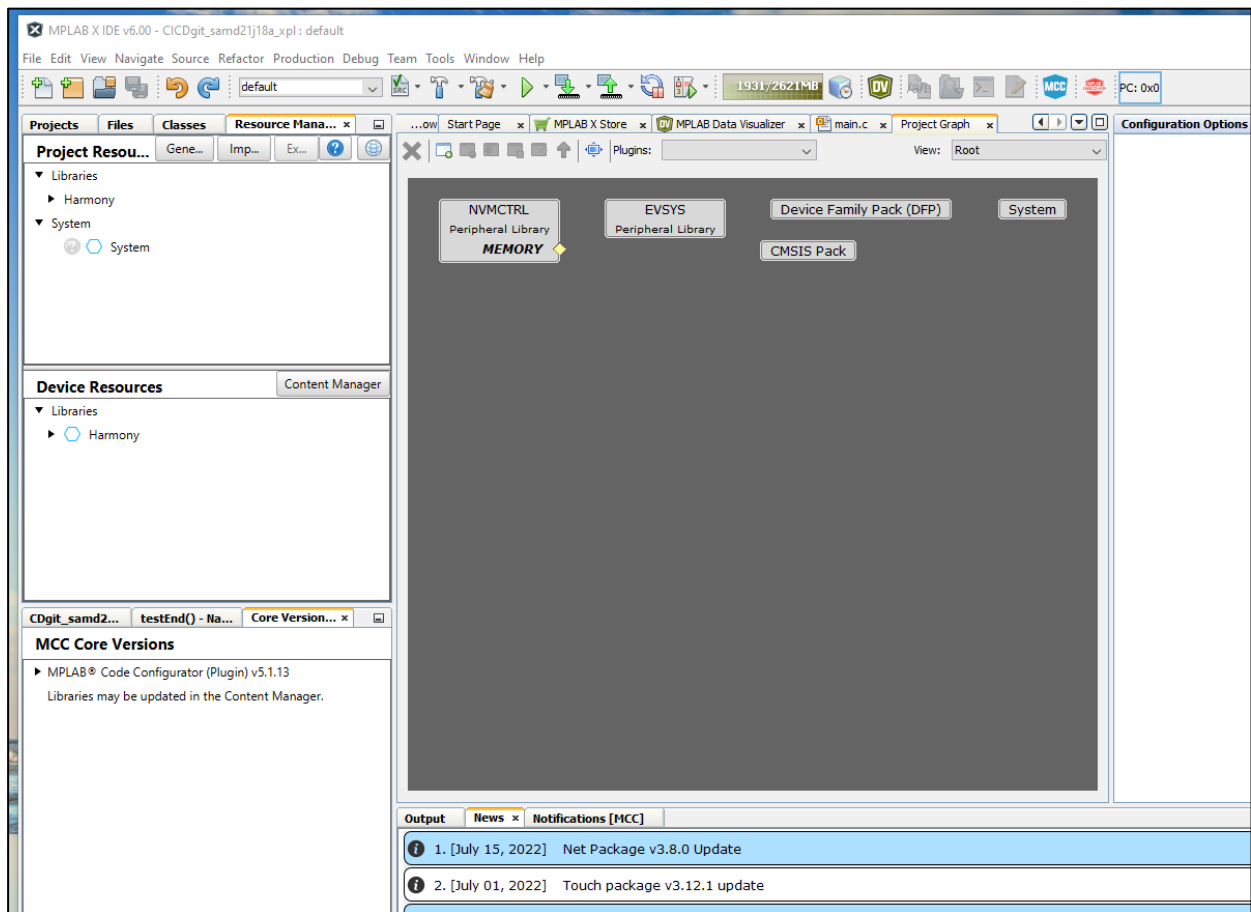
then you should see that 'all required content is available...' and you can hit 'Finish'



The path to the H3-repo should be picked up from MPLABX-settings



so continue with 'Next' and finally MHC3-UI should come up and look like this:

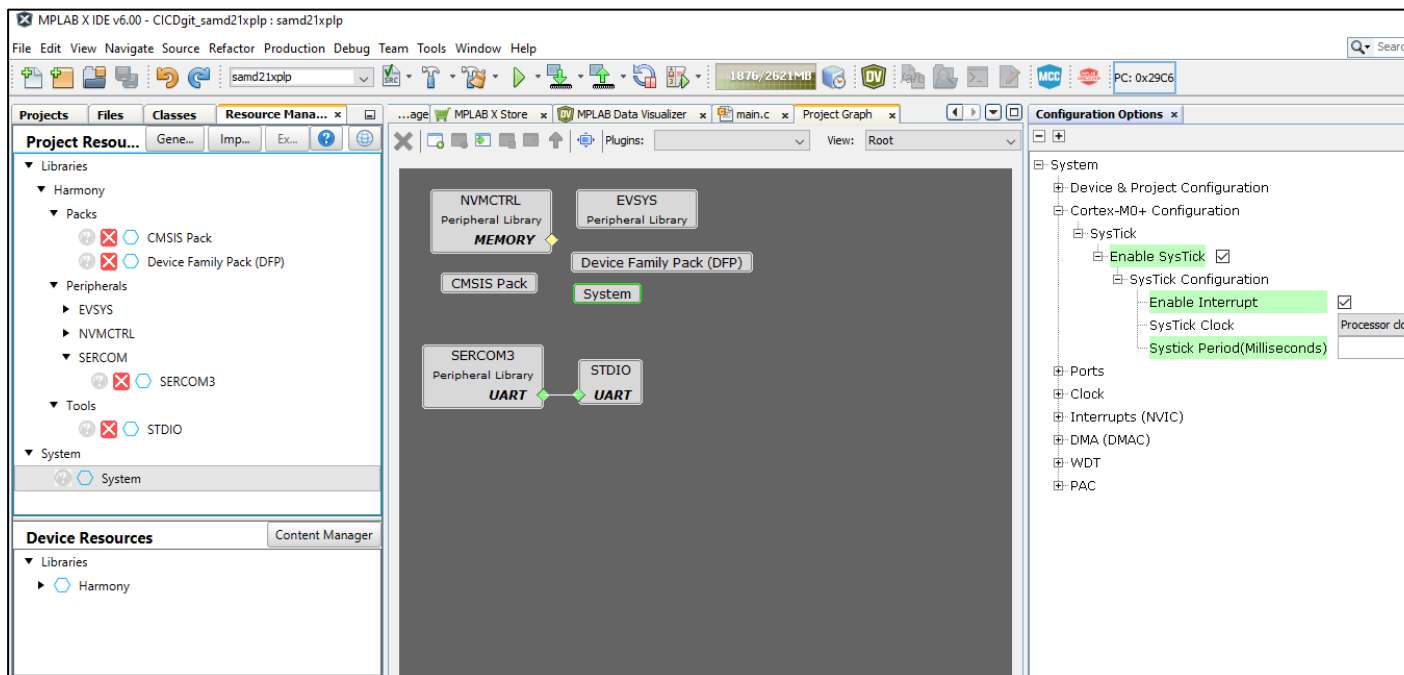


->now the prj-creation and H3-startup is done and you can continue to 'H3-configuration'

H3-configuration

Add `STDIO '=printf()'` and connect SERCOM3 (as onboard-EDBG-uart2usb bridge is connected to SERCOM3).

Configure SystemTick in 'system' as shown (to get a 250ms tickrate) and leave rest=default

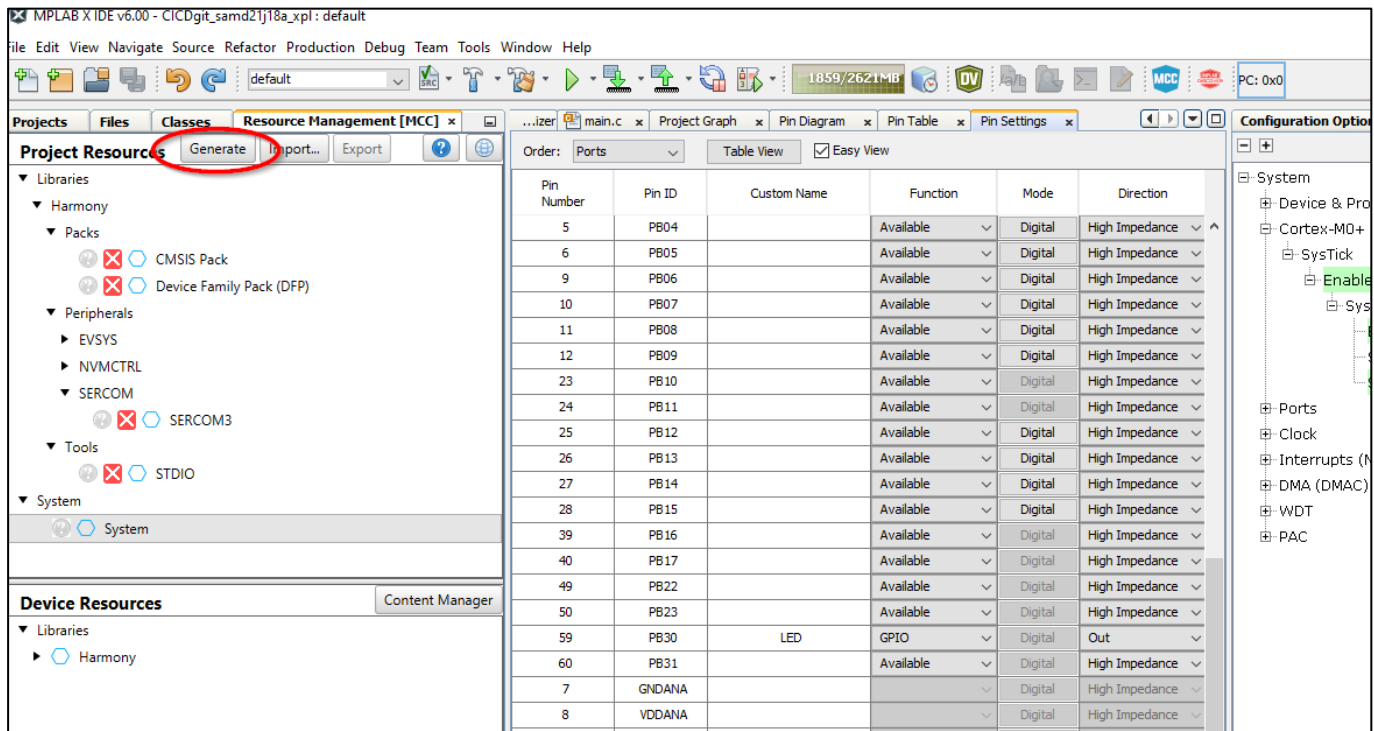


Next assign the Pins as shown below

Order:	Ports	Table View	Easy View							
Pin Number	Pin ID	Custom Name	Function	Mode	Direction	Latch	Pull Up	Pull Down	Drive Strength	
30	PA13		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
31	PA14		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
32	PA15	SW0	GPIO	Digital	In	High	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NORMAL	
35	PA16		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
36	PA17		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
37	PA18		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
38	PA19		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
41	PA20		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
42	PA21		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
43	PA22		SERCOM3_PAD0	Digital	High Impedance	n/a	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
44	PA23		SERCOM3_PAD1	Digital	High Impedance	n/a	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
45	PA24		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
46	PA25		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
51	PA27		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
53	PA28		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
57	PA30		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
50	PB23		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
59	PB30	LED	GPIO	Digital	Out	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	
60	PB31		Available	Digital	High Impedance	Low	<input type="checkbox"/>	<input type="checkbox"/>	NORMAL	

!!don't forget the PullUp on the SW0-button, otherwise 'if (SW0=pressed)' is true right away, without even pressing the SW0!!

And finally GenerateCode



Application-code

Last create application code to do this:

- On sysTick-Wrap
 - toggleLED
 - and increment 'myCnt'
- if
 - '0<=myCnt<=5' print char 'a'
 - '5< myCnt<=10' print char 'b' && reset 'myCnt=0'
- if (SW0=pressed)
 - call 'testEnd()'
- testend() {
 - print final value of 'myCnt' and loop in while(1)

-> see 'CICDgh_samd21xplp\CICDgh_samd21xplp\firmware\src\main.c'

#eof