Release Notes for MPLAB® Code Configurator Board Support Library v0.95.1(Beta Release)

1 What is MPLAB Code Configurator Board Support Library
The Board Support Library is the library for MCC Boards and Off Chip Peripherals.

2 System Requirements
- MPLAB® X IDE 5.10 or later
- PIC24-dsPIC33-PIC32MM Library Version 1.85 or later
- XC16 Compiler v1.35 or later
- XC32 Compiler v2.10 or later
- MCC Plugin Version 3.66 or later

3 Installing MPLAB® Code Configurator boardSupportLibrary-0.95.1
Basic steps for installing MPLAB® Code Configurator needs to be installed as below.

To install the MPLAB® Code Configurator v3.66 Plugin
1. In the MPLAB® X IDE, select Plugins from the Tools menu
2. Select the Available Plugins tab
3. Check the box for the MPLAB® Code Configurator v3, and click on Install

To install and load different library version when connected to internet
1. Open MPLAB® Code Configurator
2. In Versions tab under PIC24/dsPIC33/PIC32MM MCUs or Board Support Library will find the multiple library version (loaded version is indicated by the green dot)
3. Right Click on the required version of the library and select Mark for load
4. Click on Load Selected Libraries button to load the library
To install the boardSupportLibrary-0.95.1 when not connected to internet

1. In the MPLAB® X IDE, select Options from the Tools menu
2. Select Plugins tab
3. Click on Install Library
4. Add pic24-dspic33-pic32mm_v1.85.mc3lib and boardSupportLibrary-0.95.1.mc3lib
5. Restart MPLAB® X IDE

4 What’s New
Currently if the users want to run a simple demo in any board, users find the pin connections and configure the pins accordingly in the code. Board support library will eliminate the need of board schematics, users can directly configure the hardware modules without going through the schematics.

Board Support library currently support 3 boards
1) Explorer 16/32 Board
2) MCLV2 Board
3) MCHV2 Board

Board support library supports a selected set of chip modules. For the complete list of supported on chip and off chip modules, please refer the table in 7 Supported Boards\PIMs and Off Chip Peripherals

Contextual modules will be available to the users only after they load a board. Once the users load a contextual module, users don’t have to do any pin settings, pins will be configured automatically.

Non-contextual modules are always available, users don’t have to load any board for non-contextual modules. In case of non-contextual modules users must configure the pins on their own.

Board support library provides a built-in example which allows the user to blink an LED. Users select the LED (contextual or non-contextual) they want to use, specify the blink interval, generate the code, build and program it.

For more information please refer the help section provided by MCC.
## 6 Known Issues

<table>
<thead>
<tr>
<th>#</th>
<th>ID</th>
<th>Description</th>
<th>Device(s)/Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CC16BOARD-157</td>
<td>Currently, the Board Support library would take anywhere between 7-12 seconds to load the board. This is performance issue that we are actively working on and plan to resolve before the final release</td>
<td>All boards and PIMS.</td>
</tr>
<tr>
<td>2</td>
<td>CC16BOARD-135</td>
<td>Auto Selection of Secondary Oscillator is currently not Supported</td>
<td>All boards and PIMS.</td>
</tr>
<tr>
<td>3</td>
<td>CC16BOARD-145</td>
<td>Custom Name change is currently not reflected in the Pin Manager.</td>
<td>All boards and PIMS.</td>
</tr>
<tr>
<td>4</td>
<td>CC16BOARD-148</td>
<td>Currently 10-bit resolution is supported by the Pot Driver, additional resolution support is not available using MCC configuration.</td>
<td>Pot Driver</td>
</tr>
<tr>
<td>5</td>
<td>CC16BOARD-170</td>
<td>In Example demo, the usage of number of Off Chip LEDs is restricted to one</td>
<td>Example Demo</td>
</tr>
</tbody>
</table>

Frequently Asked Questions
For frequently asked questions, please refer to the FAQ post on the [MCC Forum](http://www.microchip.com/forums/f293.aspx)
# 7 Supported Boards\PIMs and Off Chip Peripherals

The MCC Board Support Library Library v0.95.1 supports the following combination of Boards\Off Chip Peripherals.

Supported - ✓ Not Supported - ✗

<table>
<thead>
<tr>
<th>Board</th>
<th>PIM</th>
<th>Off Chip Modules</th>
<th>On Chip Modules</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>LED</td>
<td>Switch</td>
<td>POT</td>
</tr>
<tr>
<td>Explorer 16/32</td>
<td>PIC24FJ128GB204 PIM</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>PIC24FJ1024GB610 PIM</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>MCLV2 Board</td>
<td>dsPIC33EP256MC506 External Op Amp PIM</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>dsPIC33EP256MC506 Internal Op Amp PIM</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>MCHV2 Board</td>
<td>dsPIC33EP256MC506 External Op Amp PIM</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
</tr>
<tr>
<td></td>
<td>dsPIC33EP256MC506 Internal Op Amp PIM</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
</tr>
</tbody>
</table>
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