Getting Started

Ensure you have the hardware and software requirements below before you attend your Hands-on Virtual Bluetooth Workshop.

1.1 Hardware Requirements

- Thunderboard BG22 Kit (SLTB010A)
- 1 Micro USB to USB Type-A cable (Not included with kit) Note: make sure USB provides both data and power
- iOS or Android Mobile device

1.2 Software Requirements

- Simplicity Studio v5 (Windows .exe, Mac .dmg, Linux .tar)
 - Bluetooth SDK 3.0.2 or later
 - Gecko SDK Suite 3.0.2 or later
- EFR Connect Mobile App, (Android China)
 - Accept Location Access. "While using the App" is acceptable. This enables Traffic Browser
- File storage solution for accessing OTA files on mobile device
 - Install cloud storage app on your mobile device (i.e. iCloud, Google Drive, Dropbox)
 - o Have cloud storage account access ready to upload files from your computer/laptop

1.3 If you do no have Simplicity Studio

- 1. Install Simplicity Studio v5 by launching Offline Installer (Windows .exe, Mac .dmg, Linux .tar)
- 2. You'll need to create or sign in with your www.silabs.com account

If you currently have Simplicity Studio installed:

- 1. Update existing Simplicity Studio installation
- 2. Update Protocol SDKs by clicking menu bar Help -> Update Software.
 - a. Click Package Manager
 - b. Click on tab for "SDKs" in Package Manager window
 - i. Select and Install Bluetooth SDK 3.0.2 or later
 - ii. Select and Install Gecko Platform 3.0.2 or later

1.4 Prepare OS to run Simplicity Commander (Needed for Lab 3)

For simplicity's sake add the path of Simplicity Commander (C:\SiliconLabs\SimplicityStudio\v5\developer\adapter_packs\commander) to the *path* environment variable in your OS, so that the *commander* command can be called from any directory.

- 1. Use Search bar in Windows 10 to locate "Environment Variables" menu.
- 2. Select "Edit the system environment variables".

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Best match Edit the system environment variables Control panel	Computer Name Hardware Advanced System Protection Remote You must be logged on as an Administrator to make most of these changes. Performance Visual effects, processor scheduling, memory usage, and virtual memory	User variables for kydando Visitable Value OneDrive C\Users\ydando\OneDrive Path C\Users\ydando\AppData\Local\Temp TEMP C\Users\ydando\AppData\Local\Temp TMP C\Users\ydando\AppData\Local\Temp
Edit environment variables for your account	Settings. User Profiles Desktop settings related to your sign-in Settings. Startup and Recovery System startup, system failure, and debugging information Settings.	New
✓ P environment variables	OK Cancel Apply	OK Cancel

- 3. Select "Environment Variables" in the System Properties window.
- 4. Select "Path" under System Variables. Click "Edit..."

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0	:\Program Files (x86)\Common Files\Oracle\Java\javapath	
0	:\SiliconLabs\Optical_Sensors\Si115x\executable	Edit
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k	:\Program Files\Common Files\Intel\WirelessCommon\	
	\Users\kydando\Downloads\SimplicityStudio-5-ble-proprietary-zi	

5. Click "New".

Verify this is the valid path for your installation. C:\SiliconLabs\SimplicityStudio\v5\developer\adapter_packs\commander Most default installations will have this path. It will be different if you modified the installation folder for Simplicity Studio.

- 6. Paste the verified location of Simplicity Commander
- 7. Click "OK" to accept addition to path and return to Environment Variables window
- Under System variables Click "New" Under Variable name enter "PATH_GCCARM" Under Variable value enter "C:\SiliconLabs\SimplicityStudio\v5\developer\toolchains\gnu_arm\7.2_2017q4" Click "OK" to accept new variable.
 Under System variable. Click "New"
- Under System variable Click "New" Under Variable name enter "PATH_SCMD" Under Variable value enter "C:\SiliconLabs\SimplicityStudio\v5\developer\adapter_packs\commander" (VERIFIED IN STEP 5) Click "OK" to accept new variable.
- 10. Click "**OK**" 3 times to close the open windows
- 11. Computer will need to be restarted for new PATH variable to be updated