

Equilibrium Client Application User Guide

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The EQ Client Application

This section of the document focuses on how to install and use the EQ Client Application for transferring the collected data from the EQ Hub to the EQ cloud for processing by the EQ Algorithm layer.

Installation

The EQ product provides versions of the EQ Client Application for Windows and Mac operating systems. The first step is to install the desired client application on your computer.

Windows

The EQ Client Application for Windows installer can be downloaded from the EQ Web Application. The installer is a zip file that includes a read-me file and an executable installer that will install the EQ Client Application software on your Windows system. Please note that we support Windows 7, Windows 8 and Windows 10 only.

Application Installation Steps

1. Double click the installation program, this will initiate the application install.
2. The installation program will install other programs that will be needed for the EQ Client Application to function.

Please note that since we are not digitally signed and approved by Microsoft you will need to perform a few actions in order to install the EQ Client Application.

1. If you see a message popup that says “Windows protected your PC”, look for the “More Info” option on the screen.
2. When you click on that you will see a “Run Anyway” option.
3. Click on that and you will be able to run the exe file.

This is a one-time operation to be done at the time of the install process.

MacOS

The EQ Client Application for MacOS can be downloaded from the EQ Web Application. The MacOS installation module is a zip file that can be used to install MacOS version of the EQ Client Application.

Application Installation Steps

1. The MacOS EQ Client application installation zip file includes two files namely a readme and a dmg file.
2. Double click the dmg and the application setup window appears.
3. Drag the Equilibrium application into the Applications folder.

Please note that since we are not digitally signed and approved by Apple yet, you will need to perform a few actions in order to open the Equilibrium Client Application for the first time.

1. If you see a message popup that says “Equilibrium.app can’t be open because it is from an unidentified developer”, press OK.
2. In your Applications, locate the Equilibrium app.
3. Right click on the app, and select Open.

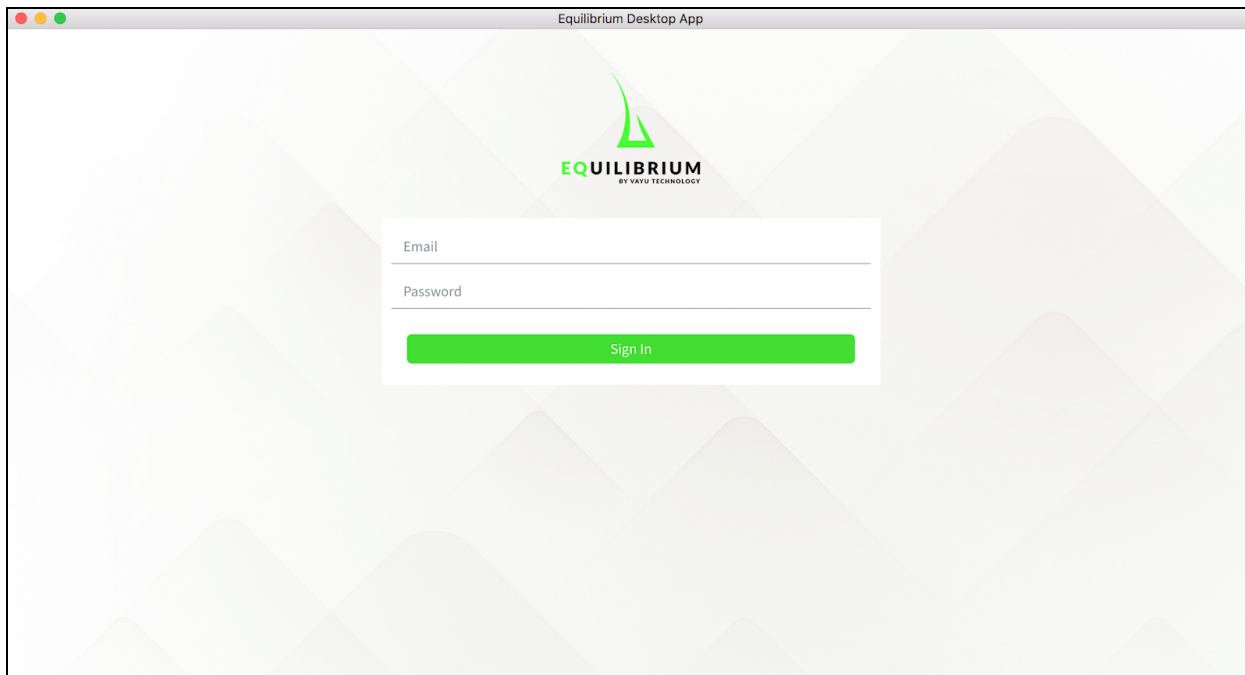
Connecting the EQ Hub

The EQ Hub has a USB port that is used for transferring the collected data from EQ Hub to the EQ cloud. The EQ Hub must be connected to your computer in order to use the EQ Client Application to perform the transfer of data from the EQ Hub.

Transferring Data from the EQ Hub

Log-In

Connect the EQ Hub to your computer and sign-in using the EQ Systems credentials associated with your user profile.



EQ Client Application: Sign-In Page

Data Transfer Process

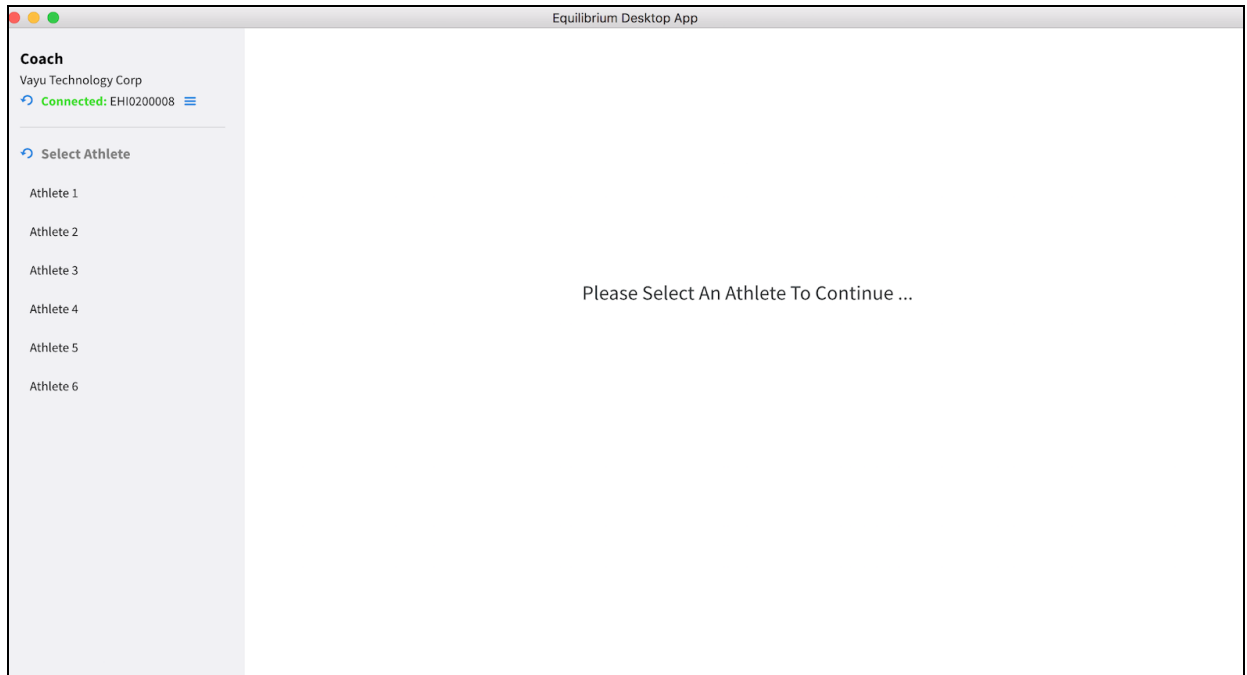
Data can be transferred from the EQ Hub and uploaded into EQ Cloud in one of two ways - (a) either all the data in the EQ Hub will be extracted and transferred or (b) all the data till the first delimiter in the stream will be extracted and transferred.

A delimiter is added when the user explicitly pushes the EQ Hub into debug mode to segregate trials between different users.

When the client app encounters this delimiter while reading the data, the user will be prompted to select the next athlete.

Follow the following steps to execute the data transfer -

1. Selecting an Athlete
 - a. In order to upload data for an athlete, the athlete will need to have a profile created in the system. Creating a profile for an athlete requires additional privileges, please refer to the EQ Web Application User Guide for more details.
 - b. You will only see athletes who are part of your organization or hierarchy.



EQ Client Application: Selecting an Athlete

2. Review the Athlete's Profile information and update the weight of the athlete should it be required.
3. Naming Your Session- name the session and press the Upload button.
4. License Activation
 - a. The application will first check if a license has been allocated to the athlete failing which a license will be automatically allocated from the organization pool.
 - b. An error message will appear if no license has been allocated or allocatable
 - c. Please contact Vayu Technology Customer Support for additional licenses.

Coach

Vayu Technology Corp

Connected: EHI0200008

Select Athlete

Athlete 1

Athlete 2

Athlete 3

Athlete 4

Athlete 5

Athlete 6

Profile Information

Name	Athlete 1
Weight	112 lb
Height	5 ft 6 in
Shoesize	8 US
Age	28

Session Information

Session Name

Enter a Session Name

Upload

EQ Client Application - Transfer Data

5. At this point the client application will either (a) read all the data in the EQ Hub or (b) all the data till the first delimiter in the stream.

Coach

Vayu Technology Corp

Connected: EHI0200008

Select Athlete

Athlete 1

Athlete 2

Athlete 3

Athlete 4

Athlete 5

Athlete 6

Profile Information

Name	Athlete 1
Weight	112 lb
Height	5 ft 6 in

Upload in Progress... 1 of 8

Please do not disconnect the EQ Hub

Upload

EQ Client Application: Upload in Progress

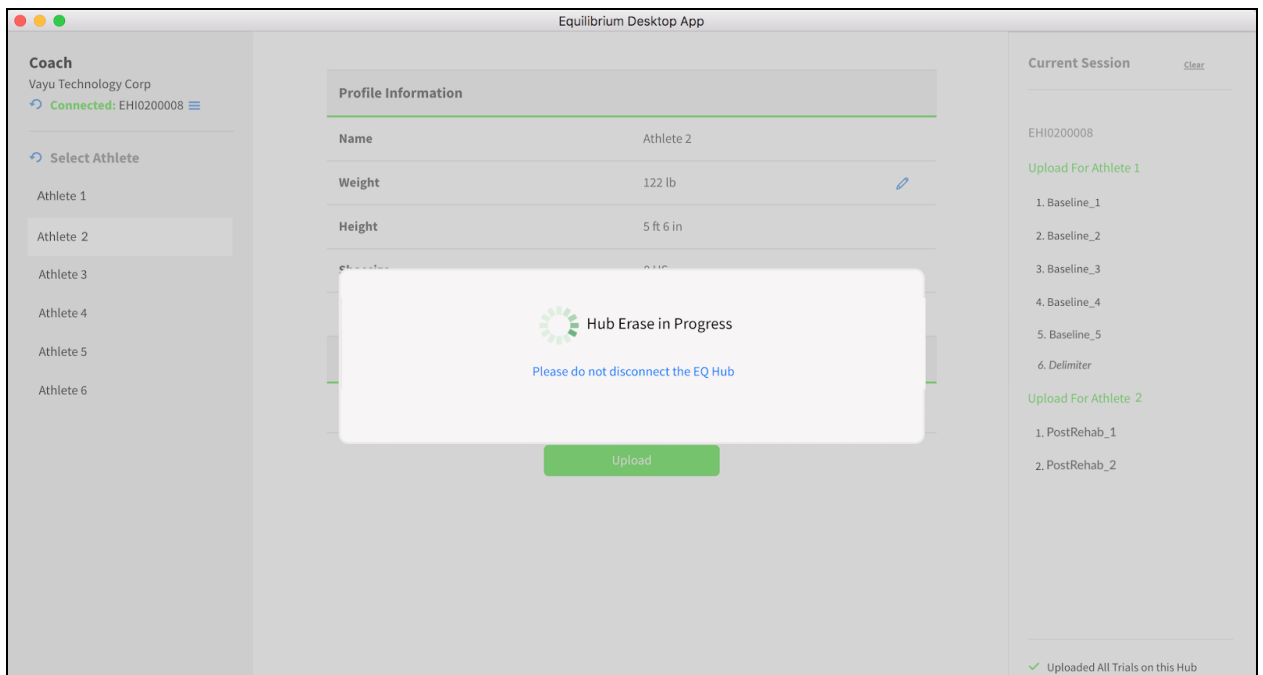
6. On encountering a delimiter while reading the data, the user is prompted for action and at this point the user can either change the athlete or select the same athlete and

continue upload of data. A right sidebar will also appear with the log of the trials that have been uploaded so far.



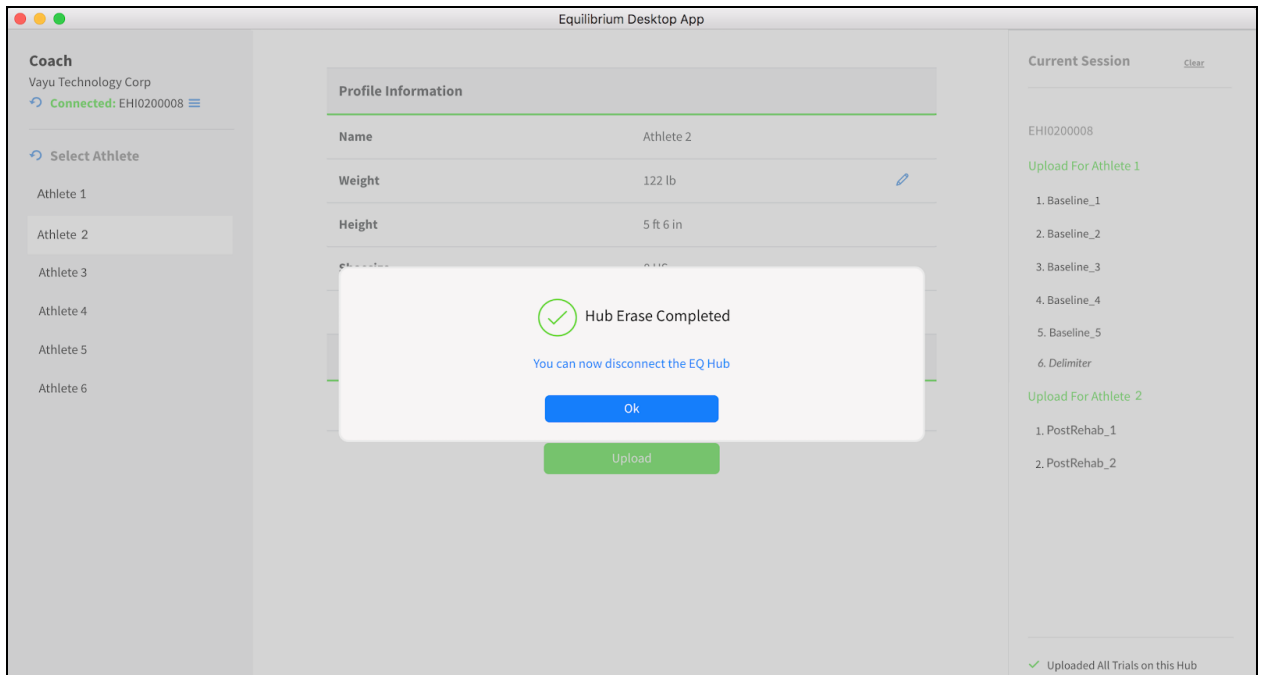
EQ Client Application: Session History

- Once all the content on the EQ Hub is read and there is no more data, the EQ Hub will auto erase.



EQ Client Application: Erase in Progress

- After the erase is complete, you can then disconnect the EQ Hub and continue using it for the next set of trials.



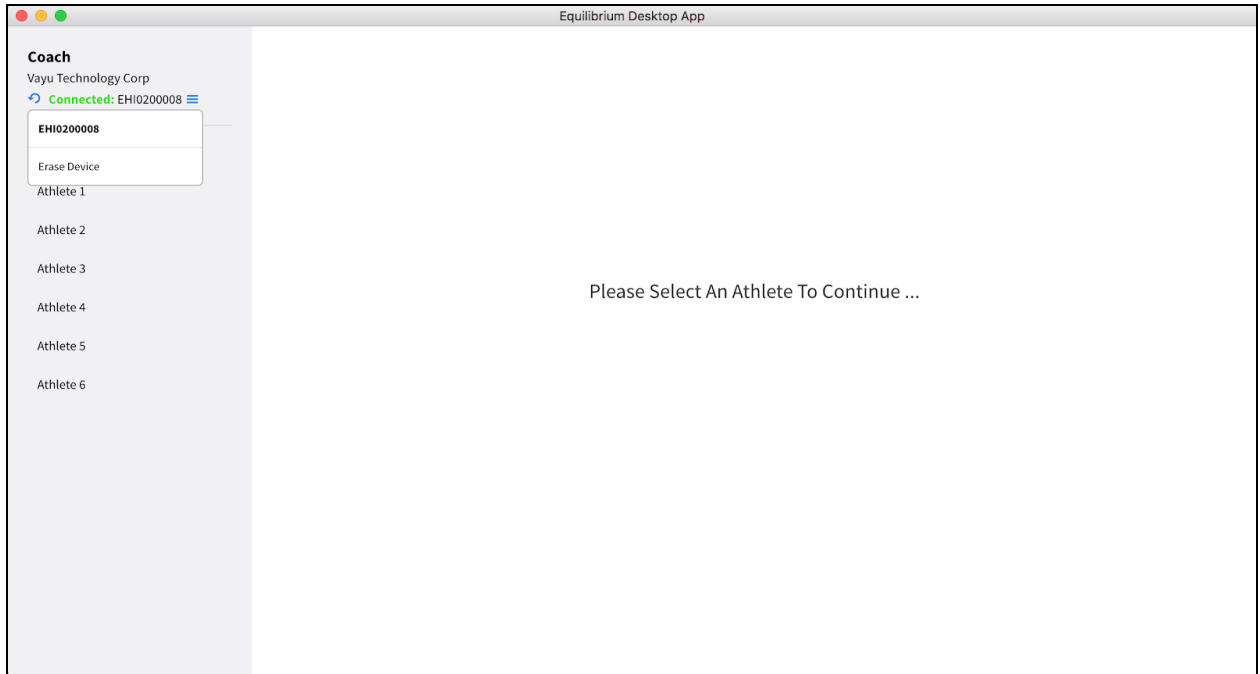
EQ Client Application: Erase Complete

Appendix

Appendix A - Troubleshooting

Data on EQ Hub Not Erased

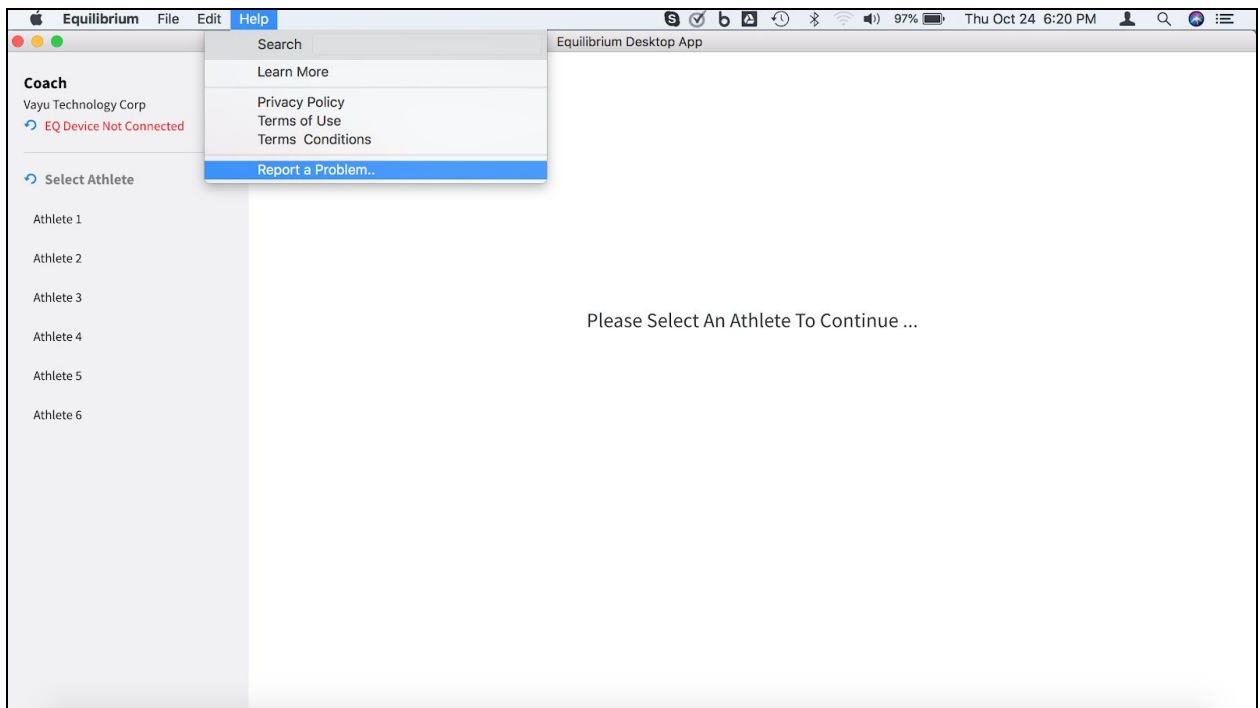
In the very unlikely event of the data not getting erased from the EQ Hub after a data transfer, you can erase the device by manually using the erase option present in the Device Menu in the left sidebar.



EQ Client Application: Device Menu

Report a Problem with the Desktop App

If you have any troubles using the EQ Desktop App, you can use the Report a Problem option present in Help Menu to let us know about the issue.



EQ Client Application: Report a Problem

EQ Password

You can change your password using the EQ Web Application.

Connection to EQ Hub Fails

If you are seeing this message “EQ Device Not Connected” even though the EQ Hub is connected to your computer, you maybe missing the required drivers. Please see [Appendix B](#) or [Appendix C](#) to complete the driver installation process.

Appendix B - Windows Drivers for EQ Client Application

The EQ Client Application needs some specific drivers to be in place in order to establish the link from a Windows PC to the EQ Hub over the USB interface.

In most cases for Windows 7 and Windows 10, the USB driver would either already have been present in the system or would get automatically installed on the system when the EQ Hub is connected to the computer over the USB port.

System Requirements

- PC running Microsoft Windows version 7, 8 or 10
- Memory: 8 GB
- Available Disk Space: 50 MB
- Ports: One usable/free USB port
- Connectivity: Internet connection required

Procedure

1. Connect the device to a USB port on the system
2. The operating system will automatically connect to the Windows Update site and install the suitable driver required for the device.
3. If the automatic installation does not take place then do the following steps.
4. Download the [setup.exe](#) and right-click and select 'Run as administrator' (https://www.ftdichip.com/Drivers/CDM/CDM21228_Setup.zip)
5. Accept the terms in the installation wizard and click next and wait till the installation completes.
6. Please note that the device must be physically plugged in after running the setup exe to complete the installation.

Appendix C - MacOS Drivers for EQ Client Application

The EQ Client Applications needs some specific drivers to be in place in order to establish the link from a Mac computer to the EQ Hub over the USB interface.

System Requirements

- Mac OS X 10.4 Tiger or later
- Memory: 8 GB
- Available Disk Space: 50 MB
- Ports: One usable/free USB port
- Connectivity: Internet connection required

Installation Procedure

Procedure 1

1. Download the installation zip file ([MacInstall.zip](#))
2. Extract the zip file onto your Mac computer. By default the zip file will get downloaded in your downloads folder.
3. Start a Terminal session (Go > Applications > Utilities > Terminal)
4. Change directory to Downloads/MacInstall (see below).

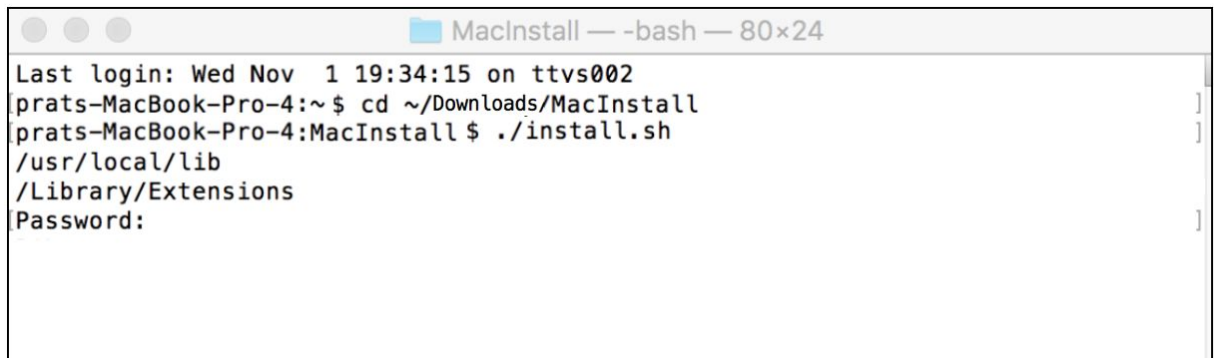
cd ~/Downloads/MacInstall

5. Run the Installation script to install the drivers (see below).

./install.sh

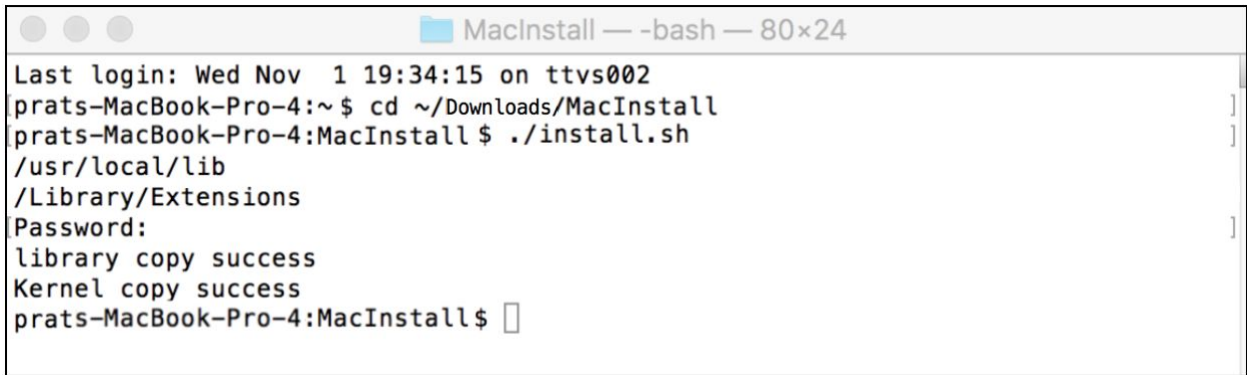
6. Enter the Mac administrator Password when requested

*Note: When you type in the password no characters will be displayed on the terminal.
Please enter the complete password and press enter.*



```
MacInstall — -bash — 80x24
Last login: Wed Nov 1 19:34:15 on ttvs002
prats-MacBook-Pro-4:~$ cd ~/Downloads/MacInstall
prats-MacBook-Pro-4:MacInstall$ ./install.sh
/usr/local/lib
/Library/Extensions
Password:
```

7. If the Installation is successful then you will see the following message.



```
MacInstall — -bash — 80x24
Last login: Wed Nov  1 19:34:15 on ttvs002
prats-MacBook-Pro-4:~$ cd ~/Downloads/MacInstall
prats-MacBook-Pro-4:MacInstall$ ./install.sh
/usr/local/lib
/Library/Extensions
Password:
library copy success
Kernel copy success
prats-MacBook-Pro-4:MacInstall$
```

8. The above indicates that the installation was successfully completed. At this point please reboot (restart) your computer.
9. If however you see any other messages, that would mean that the installation process has failed and you need to manually install the drivers.
Please follow the steps in procedure 2 to install the drivers manually.

Procedure 2

1. Download the [D2XX.zip](#) file.
2. Extract the zip file onto your Mac computer. By default the zip file will get downloaded in your downloads folder.
3. Start a Terminal session (Go > Applications > Utilities > Terminal)
4. Change directory to /usr/local/lib:

```
cd /usr/local/lib
```

Note: if /usr/local/lib does not already exist, try again after creating it with:

```
sudo mkdir -p /usr/local/lib
```
5. Copy the libftd2xx dynamic library to /usr/local/lib (note the final space and dot are essential):

```
sudo cp ~/Downloads/D2XX/bin/10.5-10.7/libftd2xx.1.2.2.dylib .
```
6. Create a version-independent symbolic link to the library:

```
sudo ln -sf libftd2xx.1.2.2.dylib libftd2xx.dylib
```
7. The driver is now installed.
8. Blocking in built VCP (Virtual COM Port) drivers (For Mac OS 10.9 +)
 - a. Disconnect all devices connected to the Mac over USB.
 - b. Download and Run the [D2xxHelper installer](#)
9. At this point please reboot (restart) your computer.