

Installing and Licensing TinyTERM for iOS

Thank you for purchasing TinyTERM for iOS. To build your custom installation file, you will need four files associated with your company. The following instructions will help create those files.

Apple Developer Account

To distribute and install TinyTERM for iOS, you must have a distribution profile, public and private keys, and a certificate associated with an Apple developer account. If you plan to install TinyTERM on more than 100 devices, you **must** have an "iOS Developer Enterprise" account.

If you do not already have an Apple developer account, you will need the following to create one:

An Apple ID:

- An existing Apple ID not associated with a developer account, or
- The ability to create a new Apple ID during the process
- A DUNS number for your company
- A credit card to pay the application fee

Once you have these items, go to <https://developer.apple.com/programs/start/ios/>. Click on the appropriate **Enroll Now** button to begin the application.

After you have completed application, an Apple representative will call to verify your information. Once verification is complete, Apple will issue you a certificate. Generally this takes about two business days.

Once you have your Apple ID, you will need to download your Worldwide Developer Certificate. Using the following link: <http://www.apple.com/certificateauthority/>



Worldwide Developer Relations

[Download certificate ▶](#)

[Download CPS ▶](#)

[Download CRL ▶](#)

Overview

Century provides additional software, Century License Manager (CLM), which will allow you to bundle all the needed information to create a signed .ipa file that will enable distribution of the iOS application.

This gives you the flexibility to modify, update, and change configurations and connection types or include certificates without having to wait for changes to be approved by Apple. The Century License

Manager (CLM) and License Configuration Server (LCS) allow you to manage your iOS deployment and push updates to select devices only or to all devices.

Please note: the tasks for creating the distribution certificate, app ID and provisioning profile only need to be done once. After these tasks are complete, newer versions of the IPA files can be signed using the same certificate, ID and profile.

Installation and Licensing

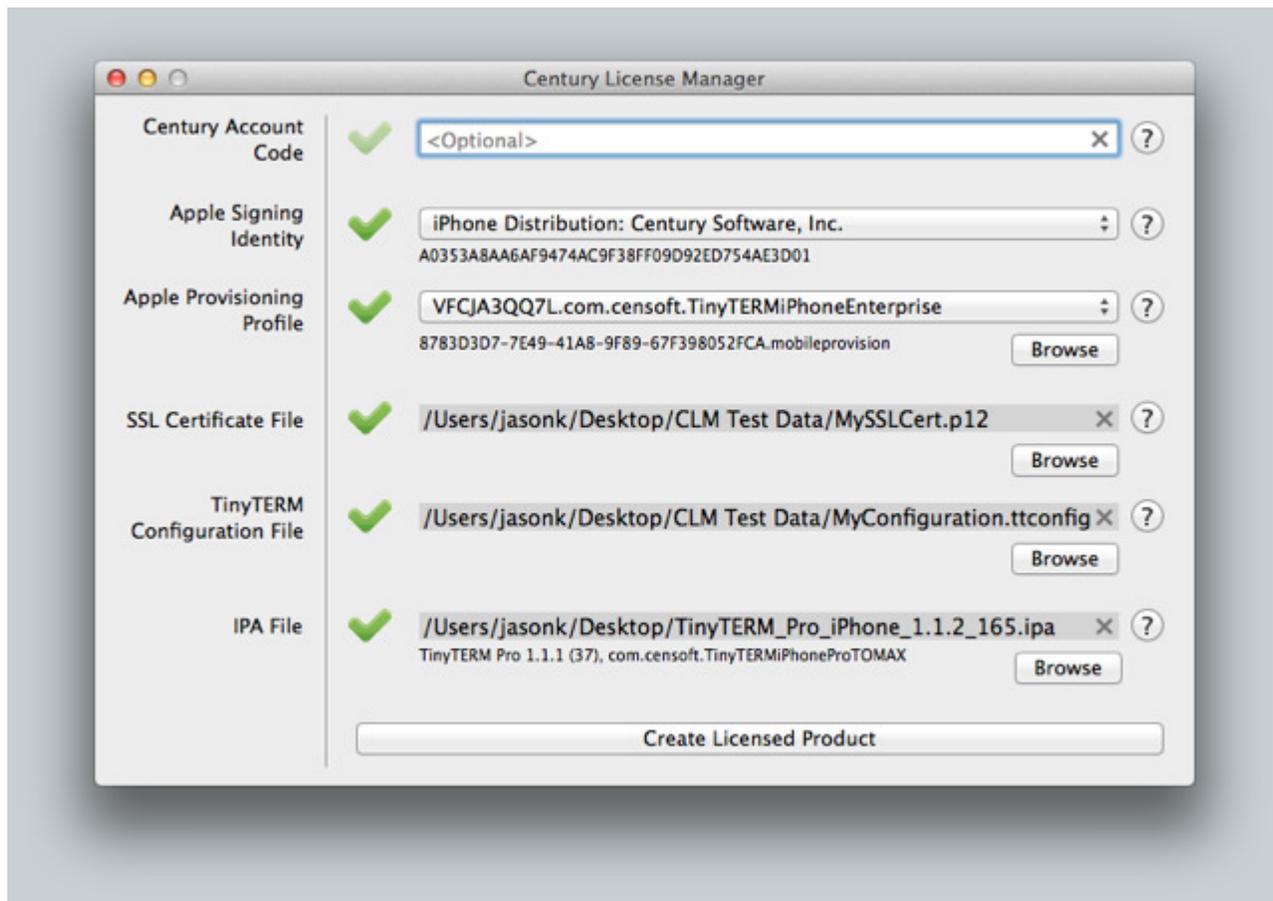
Using Century's License Manager eliminates the process of typing in long script commands and eliminates the need for Xcode. It does require all work be done on a Mac running OSX 10.7 or higher. There are two types of deployment:

Enterprise – for deploying to 100 or more devices

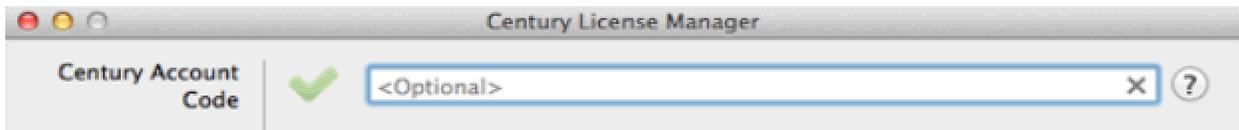
Ad Hoc – for deploying to 99 or less devices

Please note: Using the Ad Hoc deployment, you will need to create a new provisioning profile each time you add a new device or make modifications to devices.

Century's CLM requires six items. We will discuss each in the order as shown below. It is highly recommended that you have the following items completed to streamline this process: Apple Signing Identity, Apple Provisioning Profile and SSL Certificate File. Instructions for obtaining these items are detailed under each section below. To make this process run smoothly, it is suggested you create a directory that you can place the needed items in, so they are in one location.



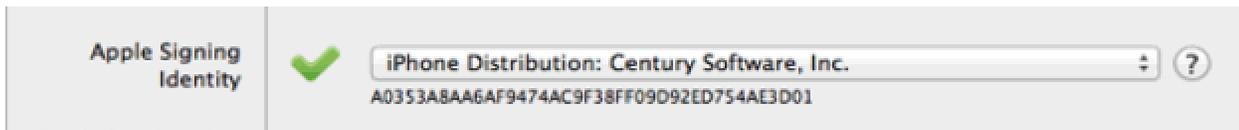
Century Account Code:



Century will provide a unique code that identifies your organization. You must select one of the two options:

- Option 1: Include the Century Account code. All devices will automatically be registered when the application first runs on the device. This will also decrement the license count.
- Option 2: Leave the Account Code field blank. When the user installs and first runs the application on the device, they will be prompted to input the unique Account code. When the Account Code is entered on the device, it will register the device and decrement a license from the total license count.

Apple Signing Identity:



The following instructions will help you create a distribution certificate, public and private keys, and provisioning profile using the Apple Developer website. **This work must be done on a Mac.** For fastest results, it should also be done using the agent login for the developer account.

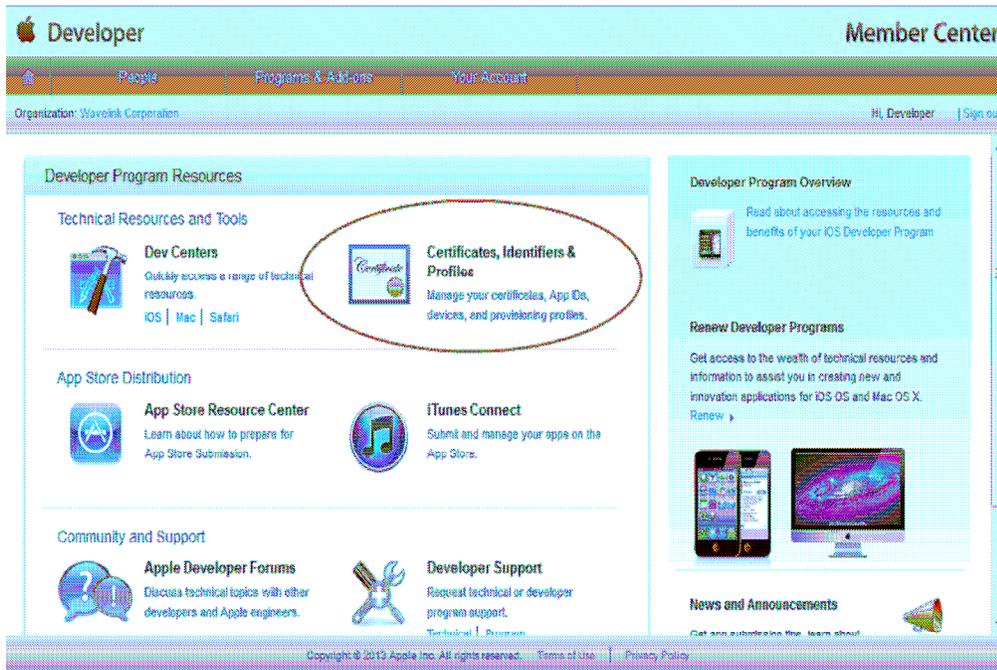
The Apple Signing Identity is actually a collection of three things:

- A public/private key pair
- A certificate that is unique to your organization
- Provisioning file

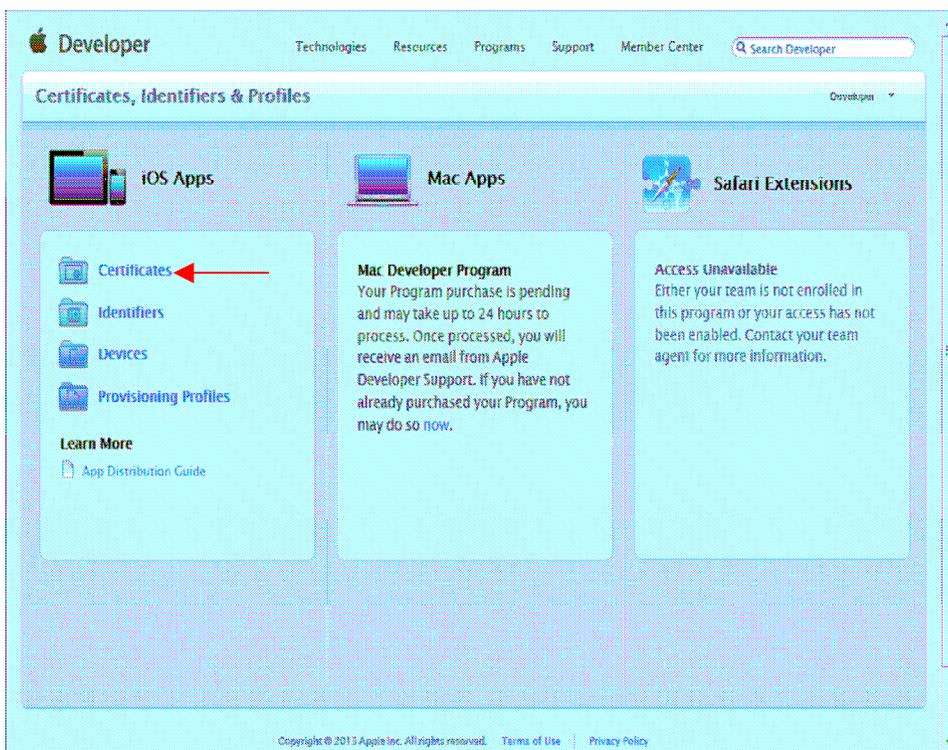
These items are generated and assigned during the process of signing up for an Enterprise ID. (See paragraphs above). These will be used to sign and bundle your iOS application. You will need to perform the following:

Create a Distribution Certificate

1. Go to <https://developer.apple.com/membercenter> and login.
2. In the **Developer Program Resources** section, click **Certificates, Identifiers & Profiles**.

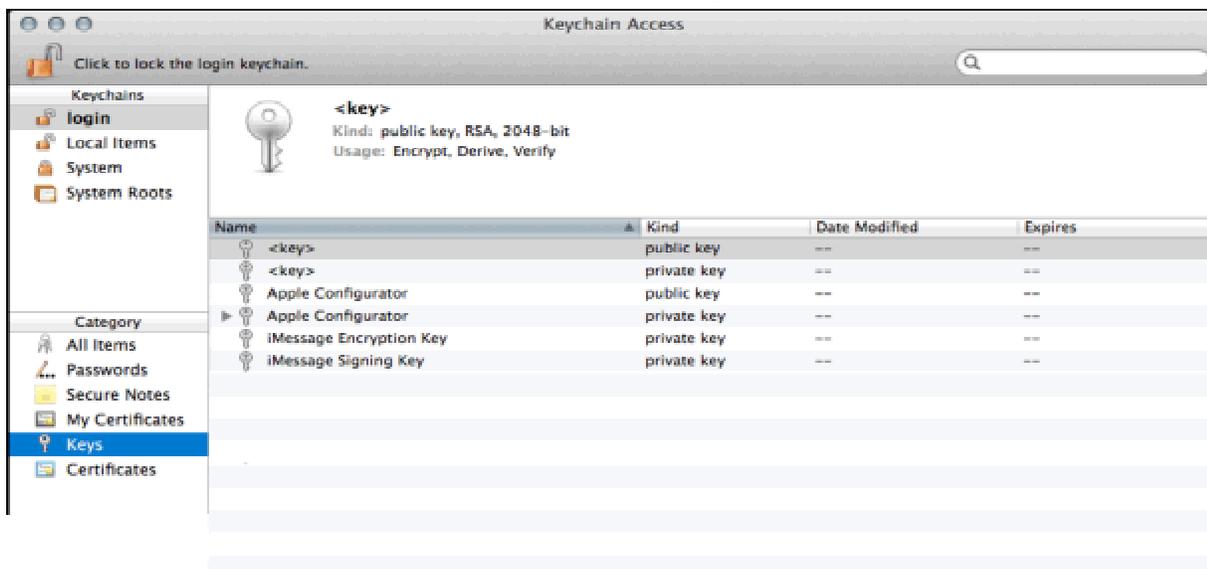


3. Click on **Certificates**.



4. On the left, select **iOS Apps** from the drop-down list.
5. Create a new distribution certificate by clicking on the **+** button.
6. Select the **iOS App Distribution** radio button and click **Continue**.
7. Create a Certificate Signing Request as described on the Apple Developer website.
8. Generate the distribution certificate and download it. Note that this must be a distribution certificate, not a development certificate. Only a distribution certificate allows you to install the app on all your devices.

9. From the Applications/Utilities folder, open the **Keychain Access** application.



10. Import the distribution certificate by clicking **File > Import Items** and selecting the certificate. The name of the file should be ios_distribution.cer. When the certificate has been imported, it shows up in Keychain Access as "iPhone Distribution: [Company Name]."
11. From the left side menu, select **Keys**.
12. Right-click the public key and export it.
13. Right-click the private key and export it also.

Create an App ID

1. From the Member Center under **Certificates, Identifiers and Profiles**, select **App IDs**.
2. Click the **+** button to create a new App ID.
3. Choose an **Explicit App ID**.
4. Enter the name com.company.TinyTERM, replacing company with your company name. Do not enter any spaces or other punctuation.

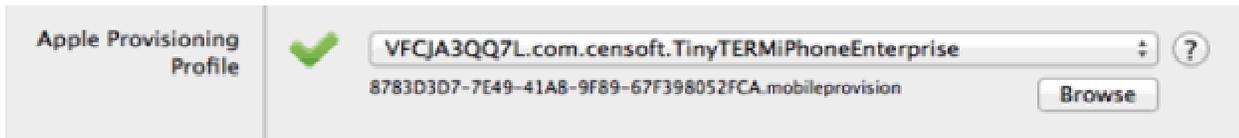
To generate a valid IPA file, you will generally need to use the identity labeled "iPhone Distribution: [Company Name]." You may only have this identity available, but if your machine is used for development, you may have many of these listed.

The Apple Signing Identity selected must match up with the Apple Provisioning Profile.

Create a Provisioning Profile

1. From the Developer Member Center, click **Certificates, Identifiers & Profiles**.
2. Click on **Provisioning Profiles**.
3. Select the **Distribution** profile type.
4. Click the **+** button to add a distribution profile.
5. Choose the App ID and distribution certificate you created.
6. Generate and download the provisioning profile.

Apple Provisioning Profile



The Apple Provisioning Profile is a file generated during the process of registering your application after signing up for your Apple Enterprise ID. It contains a unique identifier for the application (for example, VFCJA3QQ7L.com.censoft.TinyTERMiPhoneEnterprise) and is tied to the Apple Signing Identity that was used during its creation.

This file is created in the Apple Signing section, as outlined above.

To create a valid IPA file, you must select a provisioning profile that was generated using the Apple Signing Identity you selected.

Browse to the provisioning file that was created above for selection.

SSL Certificate File



You have the option to include an SSL certificate file to be included in the IPA application bundle. This certificate can be used with SSL connections to IBM 3270 and IBM 5250 hosts to identify your application and/or user. These files need to be in .p12 format.

You can browse to select the correct certificate file from your system.

If you do not need to include an SSL Certificate, please skip this step.

TinyTERM Configuration File



This will allow you to choose which configuration is bundled into the final application. You may specify the standard TinyTERM configuration file with the extension .ttconfig, or if you have a customized configuration which includes customized keyboards, layouts, etc., you can export a specific configuration directly from an existing TinyTERM application. Whichever option is selected, the identified configuration will be copied into the application bundle and will be available when the application is initially run by all users.

To export a configuration file from a device:

1. Configure the connection to needed requirements.
2. Go to Global Options and select Export Configurations.
3. Under Data to Export you can select everything which will export all settings. At a minimum you need to select Configurations, Keyboard Definitions and possibly Codepages.
4. Email or the resulting file to the Mac used for creating the .ipa.

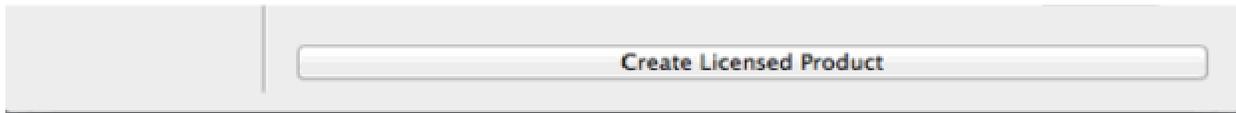
You can then browse to the exported file to include it in the application bundle.

IPA File



The IPA file is provided by Century in a download link via email. This will be provided at the same time as your account code is sent. This IPA file will be updated with all of the information entered above. You may overwrite this file as many times as you need with new configuration information.

Create Licensed Product

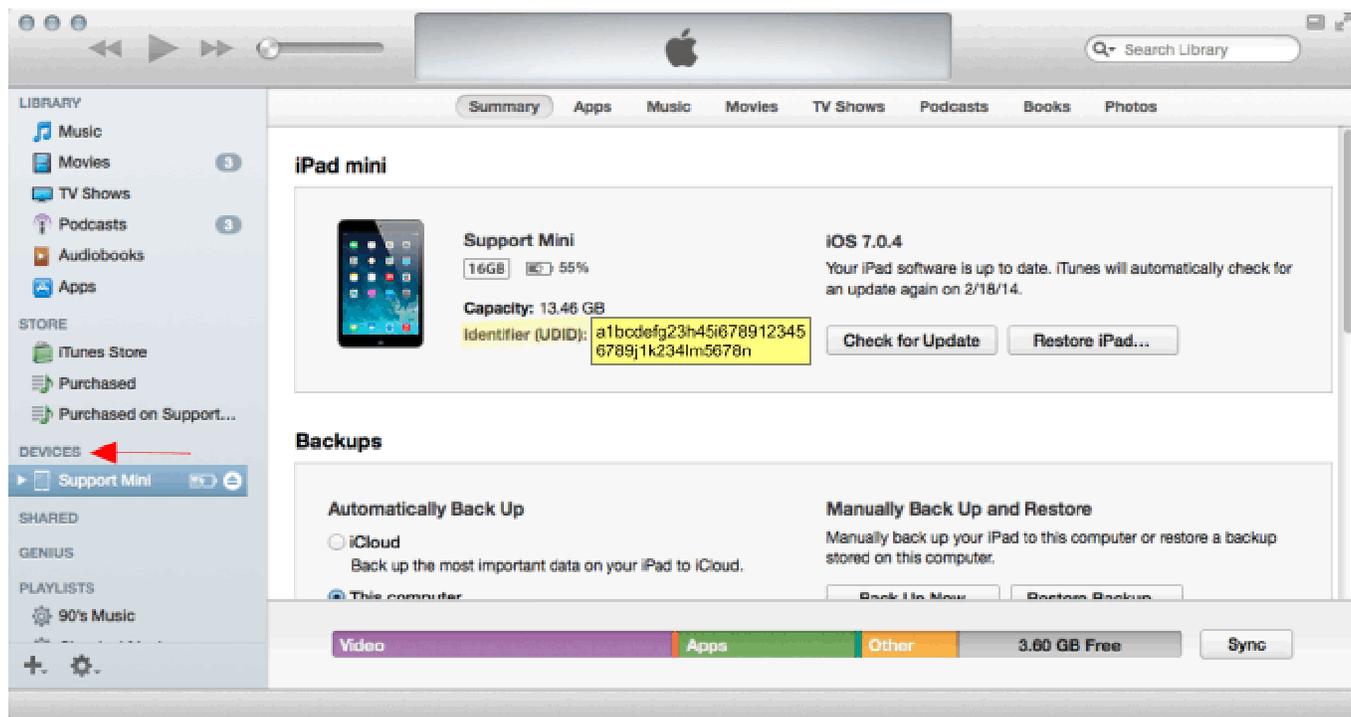


Once you have clicked on the "Create Licensed Product" button, it will generate the final application for deployment. You can place this on an internal app store or website, or in your MDM application.

Ad Hoc Deployment – for deployment on 99 units or less

If you are deploying to less than 100 units, you can choose to do an Ad Hoc deployment. For an Ad Hoc deployment, you will need the Unique Device Identifier (UDID) from all devices that will deploy the TinyTERM Enterprise application. To get the UDID from each device:

1. Connect the device to iTunes on a desktop PC or Mac.
2. In the right pane, click on the Device.
3. Click on the words **Serial Number**. This will reveal the UDID for the device.

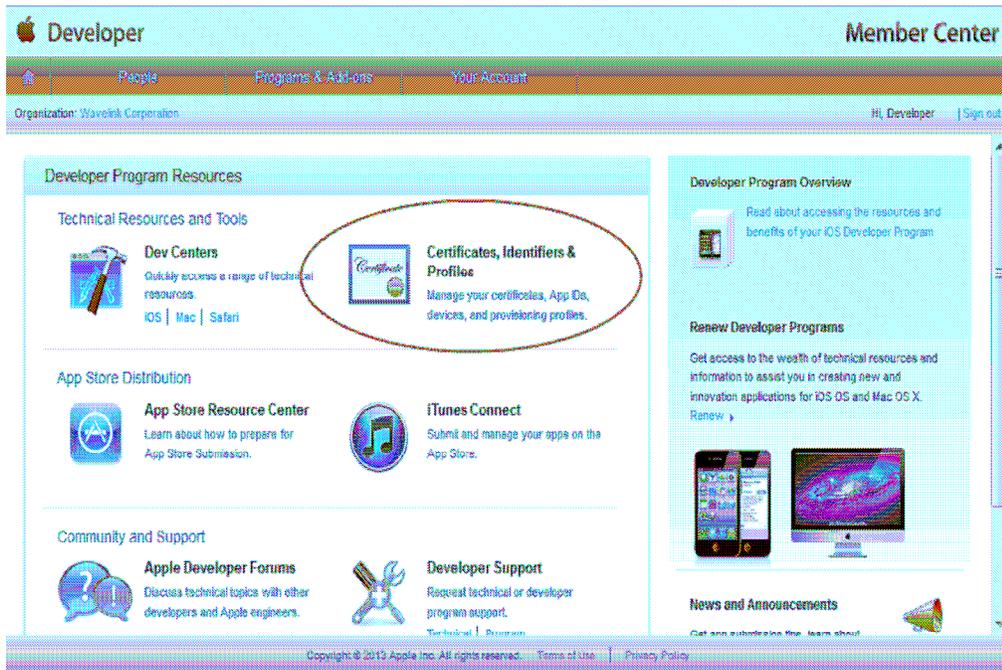


4. Right-click the UDID to copy and paste it into a text file.
5. You will need to create a list of all UDIDs from devices that will install the TinyTERM application, along with names for them. Include column headers "Device ID" and "Device Name." This file must be in .txt format. Following is an example:

Device ID	Device Name
454d42ff03019f82abcdefe2689629d44b6ffa4f	iPod1
1fa321984bf20a9910c79fabcd2cc7108395a0	iPod2
f692abcdef08b6ebad578e540d994c8ed02fd9fc	iPod3

Create a Distribution Certificate

14. Go to <https://developer.apple.com/membercenter> and login.
15. In the **Developer Program Resources** section, click **Certificates, Identifiers & Profiles**.

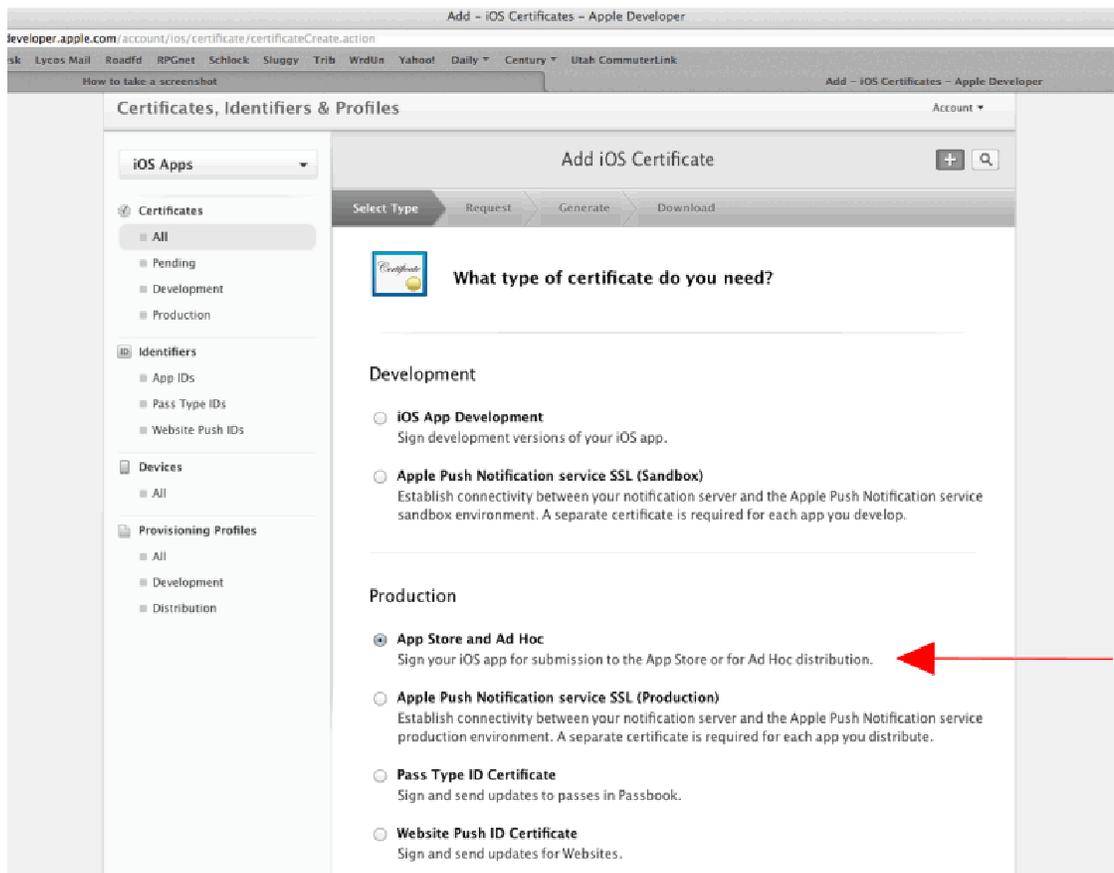


16. Click on **Certificates**.

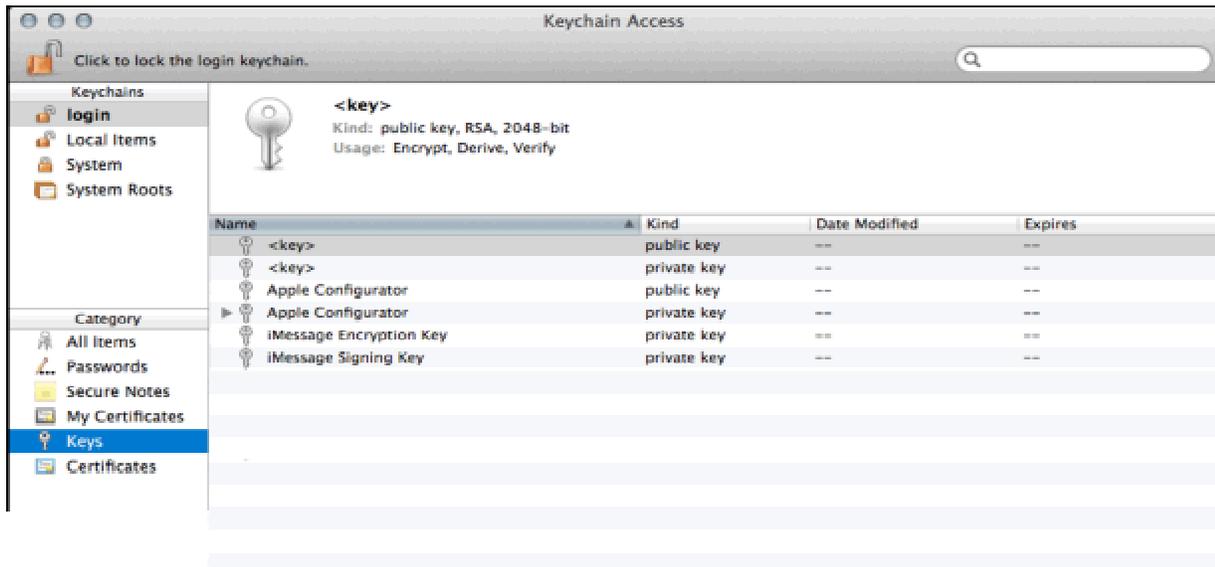


17. On the left, select **iOS Apps** from the drop-down list.

18. Create a Production certificate by clicking on "App Store and Ad Hoc."



19. Create a Certificate Signing Request (CSR) as described on the Apple Developer website using Keychain Access.
20. Generate the distribution certificate and download it. Note that this must be a distribution certificate, not a development certificate. Only a distribution certificate allows you to install the app on all your devices.
21. From the Applications/Utilities folder, open the **Keychain Access** application.



22. Import the distribution certificate by clicking **File > Import Items** and selecting the certificate. The name of the file should be ios_distribution.cer. When the certificate has been imported, it shows up in Keychain Access as "iPhone Distribution: [Company Name]."
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Create a Provisioning Profile

7. From the Developer Member Center, click **Certificates, Identifiers & Profiles**.
8. Click on **Provisioning Profiles**.
9. Select the **Distribution** profile type.
10. Click the **+** button to add a distribution profile.
11. Choose the App ID and distribution certificate you created, and select your file containing your list of UDIDs for upload.
12. Generate and download the provisioning profile.

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This file is created in the Apple Signing section, as outlined above.

To create a valid IPA file, you must select a provisioning profile that was generated using the Apple Signing Identity you selected.

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SSL Certificate File

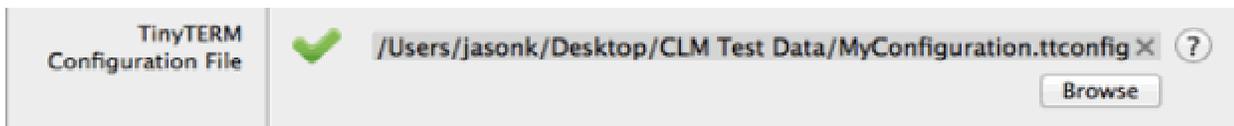


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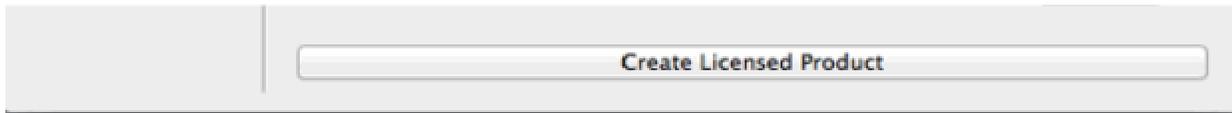
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Create Licensed Product



Once you have clicked on the "Create Licensed Product" button, it will generate the final application for deployment. You can place this on an internal app store or website, or in your MDM application. It will only allow deployment to those devices (UDIDs) listed in your list of approved UDIDs.