How to get Distribution Certificate and Profile

Once you enroll your company in the Apple's Enterprise Program, you need two files to sign the application for enterprise distribution.

These files are:

- Distribution Certificate
- Distribution Profile

The Certificates:

To get the distribution certificate from the portal, we have to create a client request which will be uploaded to the portal in order to generate the certificate. The following are the complete steps in order to get the Certificate correctly:

- Launch the Keychain Access app.
- In the Preferences menu, set Online Certificate Status Protocol (OSCP) and Certificate Revocation List (CRL) to "Off".

General First Aid	Certificates	
Online Certificate Status Protocol (OCSP):	Off	\$
Certificate Revocation List (CRL):	Off	\$
Priority:	OCSP	4 T

 Choose Keychain Access -> Certificate Assistant -> Request a Certificate from a Certificate Authority. Note: If you have a noncompliant private key highlighted in the Keychain during this process, the resulting Certificate Request will not be accepted by the Provisioning Portal. Confirm that you are selecting "Request a Certificate From a Certificate Authority..." and **not** selecting "Request a Certificate From a Certificate Authority with <Private Key>..."



- In the User Email Address field, enter your email address. Please ensure that the email address entered matches the information that was submitted when you registered as an iOS Developer.
- In the Common Name field enter your name. Please ensure that the name entered matches the information that was submitted when you registered as an iOS Developer.
- No CA (Certificate Authority) Email Address is required. The 'Required' message will be removed after completing the following step.
- Select the 'Saved to Disk' radio button and if prompted, select 'Let me specify key pair information' and click 'Continue'.

Certificate Inform	nation
Enter information Click Continue to	n for the certificate you are requesting. o request a certificate from the CA.
User Email Address	PatLee@mac.com
Common Name	Pat Lee
CA Email Address Request is	: O Emailed to the CA Saved to disk V Let me specify key pair information
	Continu

- If 'Let me specify key pair' was selected, specify a file name and click 'Save'. In the following screen select '2048 bits' for the Key Size and 'RSA' for the Algorithm. Click 'Continue'.

00	Certificate Assistant
	Key Pair Information
	Specify the key size and algorithm used to create your key pair.
	The key pair is made up of your private and public keys. The private key is the secret part of the key pair and should be kept secret. The public key is made publicly available as part of the digital certificate. Key Size: 2048 bits Algorithm: RSA
	Learn More
	Continue

- The Certificate Assistant will create a CSR file on your desktop.
- After creating a CSR, log in to the iOS Provisioning Portal and navigate to 'Certificates' > 'Distribution' and click 'Add Certificate'.
- Click the 'Choose file' button, select your CSR and click 'Submit'. If the Key Size was not set to 2048 bits during the CSR creation process, the Portal will reject the CSR.
- Upon submission, Team Admins will be notified via email of the certificate request, they need to approve the CSR in order to generate the Distribution Certificate. If you are part of the Team Admins you can approve the CSR by yourself navigating to 'Certificates' > 'Distribution' int the iOS Provisioning Portal.
- Once approved you should be able to download certificate.

Certificate Installation:

Now that we are done with the certificate, we have to install the certificate locally:

- In the 'Certificates' > 'Distribution' section of the Portal, control-click the WWDR Intermediate Certificate link and select "Saved Linked File to Downloads" to initiate download of the certificate.
- On your local machine, double-click the WWDR Intermediate certificate to launch Keychain Access and install.

Click to lock the	login keychain.		Q	_
Keychains login System System Roots	Name	A Kind Evoires Keyrbain		
Category A All Items		Add Certificates O you want to add the certificate(s) from the file "applewwdrca.cer" to a keychain?		
Certificates My Certificates Keys Secure Notes		Keychain: login 🗘		

- Upon CSR approval, Team Members and Team Admins can download their certificates via the 'Certificates' section of the Provisioning Portal. Click 'Download' next to the certificate name to download your iOS Development Certificate to your local machine.
- On your local machine, double-click the downloaded .cer file to launch Keychain Access and install your certificate.
- Team Members can only download their own iOS Development Certificates. Team Admins have the authority to download the public certificates of all of their Team Members. Apple never receives the private key for a CSR. The private keys are not available to anyone except the original key pair creator and are stored in the system keychain of that Team Member.

Click to lock the lo						
Check to fock the lo	ogin keychain.				Q	
Keychains login System System Roots	iPhone Developer: Team Leader Issued by: Apple Worldwide Developer Relations Cert Expires: Wednesday, February 25, 2009 10:30.00 AN This certificate is valid	tification Authority II PT	0			
	Name	A Kind	Expires	Keychain		
	Apple Worldwide Developer Relations Certification Authority	certificate	Feb 14, 2016 12:00:00 AM	login		
1	IPhone Developer: Team Leader	certificate	Feb 25, 2009 12:00:00 AM	login		
Certificates My Certificates Keys Secure Notes						
		2	tems			

Saving the Certificate

Assuming that you already have the distribution/development certificate, you can also export it from your computer in order to save it as back up or to use it i another computer. To export the certificate from your computer following these steps:

- Open the keychain access application

- Locate the certificate under login keychains for My Certificates category, and check that it has an identity key associated

00	Keychain Access		
Click to lock the login keychain.		٩	
Keychains login System System Roots	iPhone Distribution: SouthLabs S.R.L. Issued by: Apple Worldwide Developer Relations Certification Authority Expires: Thursday, April 19, 2012 3:39:30 PM Uruguay Time This certificate is valid		
	Name	▲ Kind	Expires
		certificate	Apr 4, 2013
		certificate	Sep 1, 2011
		certificate	Mar 3, 2012
		certificate	May 26, 201
	V 🖂 iPhone Distribution: SouthLabs S.R.L.	certificate	Apr 19, 201
	🖗 SouthLabs	private key	
Category			
All Items			
/ Passwords			
Secure Notes	identity key		
Secure Notes	identity reg		
My Certificates Keys			
Certificates			
	+ i Copy Sitems) • •

- Right click or Control click the certificate and click the Export option. This will save a .p12 file that can or cannot be password protected.

00		Keychain Access		
Click to lock the login keychain.			٩	
Keychains login System System Roots	Certificate Control Survey Control S	stribution: SouthLabs S.R.L. pple Worldwide Developer Relations Certification Authority rsday, April 19, 2012 3:39:30 PM Uruguay Time icate is valid		
	Name		Kind certificate certificate certificate	Expires Apr 4, 2013 Sep 1, 2011 Mar 3, 2012
	Image: Phone Distribution P SouthLa Copy	dentity Preference "iPhone Distribution: SouthLabs S.R.L."	certificate private key	Apr 19, 2012
Category All Items Passwords Secure Notes My Certificates % Keys Certificates	Get In Evalua	t "iPhone Distribution: SouthLabs S.R.L." fo ate "iPhone Distribution: SouthLabs S.R.L."		
	+ i Copy	5 items) • • //.

After that, send us the p12 file, this file should embed the identity key along with the certificate

Note: the certificate must have an identity key associated, otherwise the certificate will not work.

Application ID and Distribution Profile

To get the distribution profile, you need to follow a few steps:

- First you need to create a new application ID (unless you already got one for the application you are trying to distribute), so go to your developer center home (<u>http://</u><u>developer.apple.com/devcenter/ios</u>)
- Login in dev senter and enter the iOS provisioning portal.
- Click on the App IDs section and then the New App ID button:

Provisioning Portal	Go to iOS Dev Center
Home	
Certificates	Manage How To
Devices	ID App IDs
Provisioning Distribution	App IDs are an integral part of the iOS Development and Provisioning Process that allows an application to communicate with the Apple Push Notification service and/or an external hardware accessory. In addition, an App ID can also be used to share keychain data (such as passwords) between a suite of applications and share document and configuration data between your applications using iCloud. An App ID is the combination of a unique ten character string called the "Bundle Seed ID" and a traditional CF Bundle ID (or Bundle Identifier). The Bundle Seed ID portion of your App ID can be utilized to share keychain access between multiple applications you build with a single App ID. In addition, it can be incorporated into any external hardware accessories you wish to pair your iOS application with. Registration of your App ID is required to utilize the Apple Push Notification service (APNs) and to register an application to incorporate In App Purchases.

- Once there you will see a form like the following, so fill the blanks with the corresponding data.

Provisioning Portal	Go to iOS Dev Center
Home Certificates	Manage How To
Devices App IDs	Create App ID
Provisioning	Description
Distribution	Enter a common name or description of your App ID using alphanumeric characters. The description you specify will be used throughout the Provisioning Portal to identify this App ID.
	My Application ID for Distribution You cannot use special characters as @, &, *, * in your description.
	Bundle Seed ID (App ID Prefix)
	Generate a new or select an existing Bundle Seed ID for your App ID.
	Generate New 🗘 If you are creating a suite of applications that will share the same Keychain access, use the same bundle Seed ID for each of your application's App IDs.
	Bundle Identifier (App ID Suffix)
	Enter a unique identifier for your App ID. The recommended practice is to use a reverse-domain name style string for the Bundle Identifier portion of the App ID.
	com.mycompany.appName Example: com.domainname.appname
	Cancel Submit

- Basically you have three fields:
 - **Description:** Name or description for the app id for further recognition around the portal
 - **Bundle Seed ID:** Option "Generate New" recommended. Choosing one of possible existing seeds are useful for suit of application that shares certain private information
 - **Bundle Identifier:** A unique identifier for your App ID. The use of a reversedomain name style string is the best practice for the Bundle Identifier portion of the App ID. i.e.: com.mycompany.appName
- Finally click submit.

Getting the Certificate

- Go to the Provisioning section, and under the distribution tab click New Profile

Provisioning Po	rtal :	Go to iOS Dev Center
Home Certificates	Development Distribution History How To	
Devices App IDs	Distribution Provisioning Profiles	New Profile
Provisioning	Provisioning Profile App ID	Status Actions
Distribution		Invalid Renew

- Now you should see a form like the following, so fill the blanks with the needed information.

Provisioning Portal	:	Go to iOS Dev Center				
Home Certificates	Development	Distribution History How To				
Devices App IDs	Create iOS Distrib	oution Provisioning Profile				
Provisioning	Generate provisioning pro	Generate provisioning profiles here. All fields are required unless otherwise noted. To learn more, visit the How To section.				
Distribution	Distribution Method	● In House O Ad Hoc				
	Profile Name	My App Distribution Profile				
	Distribution Certificate	(expiring on Apr 19, 2012)				
	App ID	Select an App ID				
	Devices (optional)	Select up to 100 devices for distributing the final application; the final application will run only on these selected devices.				
		Select All				
		Cancel Submit				

- Fields that you need to fill are:

- **Distribution Method:** Ad Hoc is for internal distribution for testing purposes and specific device IDs are needed; the In House option let you create a profile that helps you to distribute the release build of the application internally and no device IDs are needed.
- Profile Name: A name for the profile file.
- **Distribution Certificate:** Tick the certificate that matches the profile, this should be the certificate that we exported in the first section
- App ID: The application identifier we created above.
- After filling the fields, click submit.

Once you have created the profile, go back to the Provisioning section under the Distribution tab. There you will find a list of the profiles that you already have, so locate the one we just created and download it. Sometimes the profile takes just a minute to be available for download, in case you are not able to download the profile, just refresh the page after a few seconds and the download button should appear next to the profile name.

Provisioning Porta	1:	Go to iOS Dev Center
Home		
Certificates	Development Distribution History How To	
Devices	Distribution Provisioning Profiles	New Profile
App IDs	<u> </u>	
Provisioning	Provisioning Profile App ID	Status Actions
Distribution	SharePlus	Active Download