

Distributing Enterprise Apps

Session 705
Dave Rahardja
iOS Software Engineer

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Getting Started

Getting Started

Enterprise account



The screenshot shows the Apple Developer Member Center interface. The top navigation bar includes links for People, Programs & Add-ons, and Your Account. The main content area displays the organization information for "Apple Inc." and lists two legal agreements:

Name	Date
Registered Apple Developer Agreement	Mar 01, 2010
iOS Developer Program Enterprise License Agreement	Sep 09, 2012

The "Legal Agreements" link in the sidebar is highlighted.

Getting Started

Enterprise account

No minimum company size



The screenshot shows the Apple Developer Member Center interface. The top navigation bar includes links for People, Programs & Add-ons, and Your Account, with Your Account being the active tab. The main content area displays the organization information: Apple Inc. Below this, there are three categories: Account Summary, Professional Profile, and Legal Agreements. The Legal Agreements section is currently selected and lists two agreements with their names and dates:

Name	Date
Registered Apple Developer Agreement	Mar 01, 2010
iOS Developer Program Enterprise License Agreement	Sep 09, 2012

Getting Started

Enterprise account

No minimum company size

D-U-N-S number



The screenshot shows the Apple Developer Member Center interface. The top navigation bar includes links for People, Programs & Add-ons, and Your Account, with 'Your Account' being the active tab. The main content area displays the organization information: 'Organization: Apple Inc.'. Below this, there are three menu items: 'Account Summary', 'Professional Profile', and 'Legal Agreements'. The 'Legal Agreements' menu item is currently selected. A table lists two agreements:

Name	Date
Registered Apple Developer Agreement	Mar 01, 2010
iOS Developer Program Enterprise License Agreement	Sep 09, 2012

Getting Started

Enterprise account

No minimum company size

D-U-N-S number

\$299 a year



The screenshot shows the Apple Developer Member Center interface. The top navigation bar includes links for People, Programs & Add-ons, and Your Account, with Your Account being the active tab. The main content area displays the organization information: Apple Inc. Below this, there are three categories: Account Summary, Professional Profile, and Legal Agreements. The Legal Agreements section is currently selected and lists two agreements with their names and dates:

Name	Date
Registered Apple Developer Agreement	Mar 01, 2010
iOS Developer Program Enterprise License Agreement	Sep 09, 2012

Getting Started

Agent account

Add Admins and
Team Members

The screenshot shows the Member Center - Apple Developer interface. At the top, there's a navigation bar with links for 'People', 'Programs & Add-ons', and 'Your Account'. The 'Your Account' link is highlighted. Below the navigation, it says 'Organization: Apple Inc.' and shows a 'Hi, John Appleseed | Sign out' message. The main content area is titled 'Developer Program Resources' and includes sections for 'Technical Resources and Tools' (with 'Dev Centers' and 'Certificates, Identifiers & Profiles' options), 'Community and Support' (with 'Apple Developer Forums' and 'Developer Support' options), and 'Developer Program Overview' (with a 'Read about' link). There are also 'News and Announcements' and a 'Learn more' link.

Roles

Roles

Agent accepts legal terms

Roles

Agent accepts legal terms

Admins manage team members, prepare apps for distribution

Roles

Agent accepts legal terms

Admins manage team members, prepare apps for distribution

Team members develop and test code

Roles

Agent accepts legal terms

Admins manage team members, prepare apps for distribution

Team members develop and test code

Employees

Roles

Agent accepts legal terms

Employees

Admins manage team members, prepare apps for distribution

Employees or
Contractors

Team members develop and test code

Admins

Add and remove team members

Create App IDs

Request Push Certificates

Add devices to team development provisioning profile

Manage distribution code signing certificate

Create distribution provisioning profiles

Package apps for distribution

Team Members

Have personal code signing certificates

Use team development provisioning profile to debug

Create Ad-Hoc distributions

Contractors

Contractors are Team Members

Invite them using their email address

Get their own code signing certificate

Remove contractors from team when they leave

Invite Team Member

Member Center – Apple Developer

Apple Inc. developer.apple.com/membercenter/index.action#allpeople

Developer Member Center

People Servers Programs & Add-ons Your Account

Organization: Apple Inc. – Business Markets Enterprise

Hi, Dave Rahardja | Sign out

All People iOS Developers Invitations

Name	iOS Developer Program	Actions
Annette Fillice	Admin	Details
Bea Zubiri	Admin	Details
Brian Iturralde	Admin	Details
Brooke Embry	Member	Details
DJ Rice	Member	Details
Dan Gard	Admin	Details
Darlene Garcia	Member	Details
Dave Rahardja	Admin	Details
Erik Chappins	Admin	Details
Ivan Liberato	Admin	Details
Jasmine Guo	Admin	Details
Josiah Slifer	Member	Details

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Delete

Invite Team Member

Member Center – Apple Developer
developer.apple.com/membercenter/index.action#allpeople

Apple Developer Member Center

People Servers Programs & Add-ons Your Account

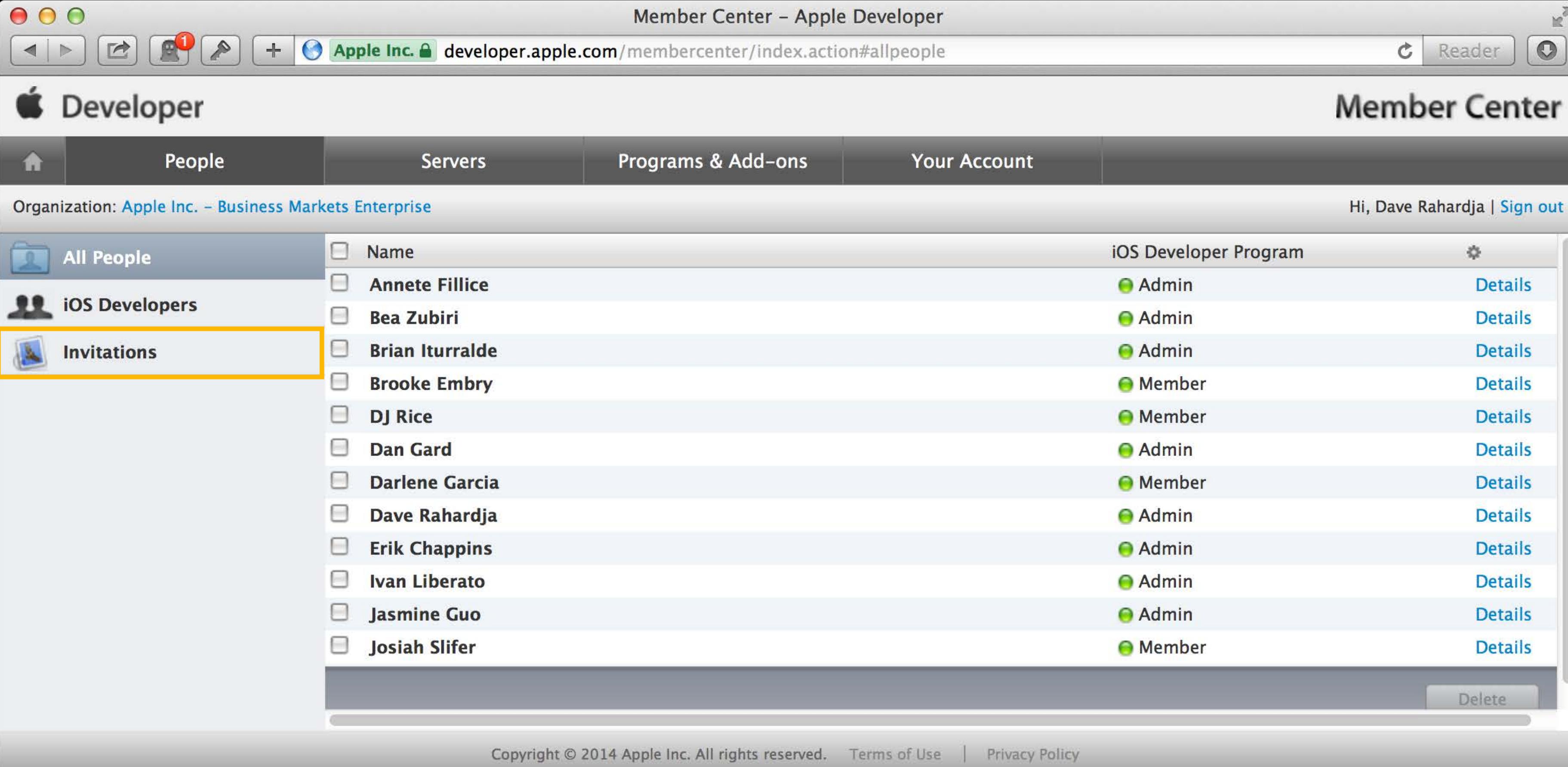
Organization: Apple Inc. – Business Markets Enterprise Hi, Dave Rahardja | Sign out

All People iOS Developers Invitations

Name	Program	Role	Details
Annette Fillice	iOS Developer Program	Admin	Details
Bea Zubiri		Admin	Details
Brian Iturralde		Admin	Details
Brooke Embry		Member	Details
DJ Rice		Member	Details
Dan Gard		Admin	Details
Darlene Garcia		Member	Details
Dave Rahardja		Admin	Details
Erik Chappins		Admin	Details
Ivan Liberato		Admin	Details
Jasmine Guo		Admin	Details
Josiah Slifer		Member	Details

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Delete



Invite Team Member

Member Center – Apple Developer
developer.apple.com/membercenter/index.action#allpeople

Developer Member Center

People Servers Programs & Add-ons Your Account

Organization: Apple Inc. – Business Markets Enterprise Hi, Dave Rahardja | Sign out

All People iOS Developers Invitations

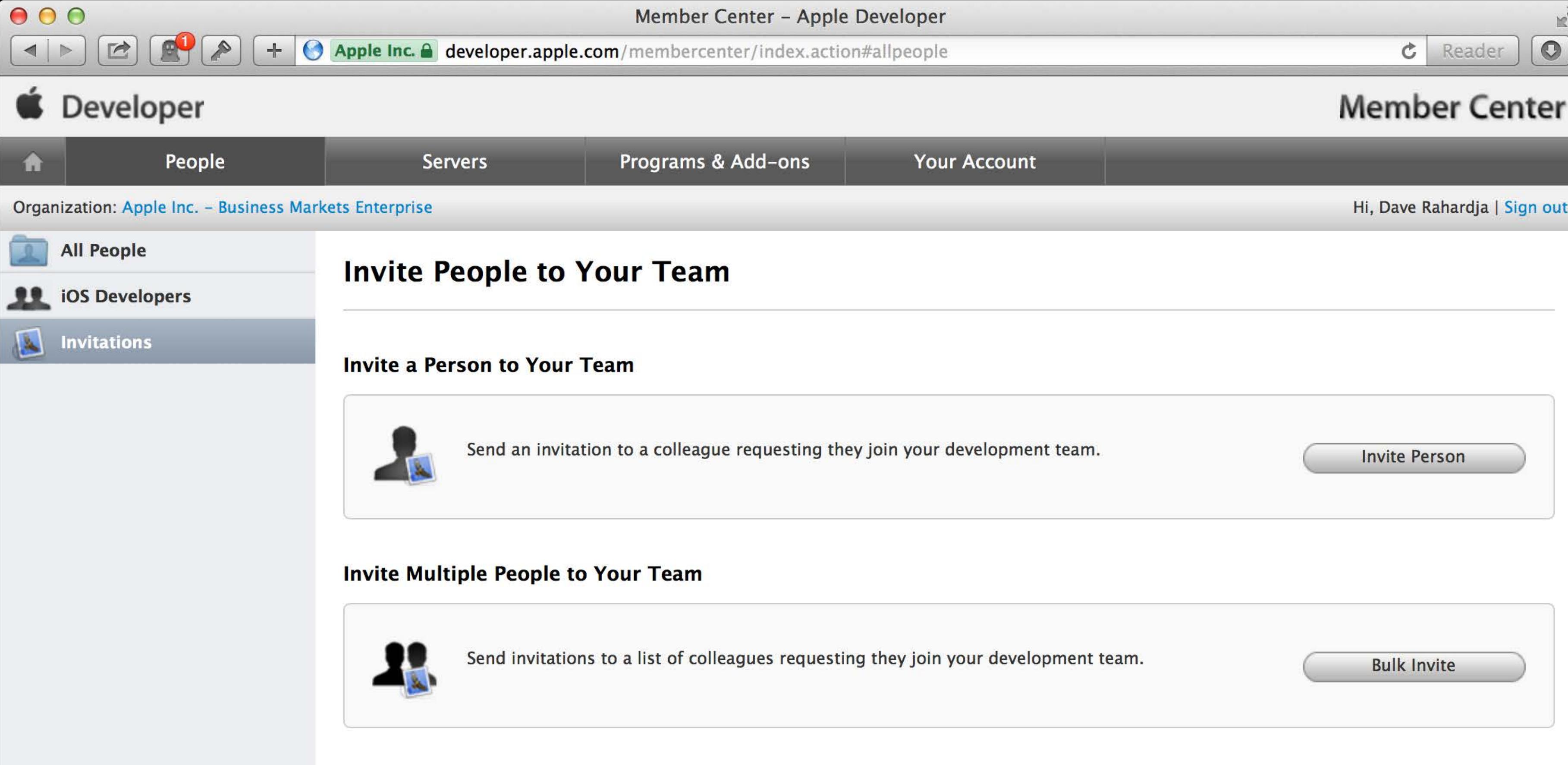
Invite People to Your Team

Invite a Person to Your Team

 Send an invitation to a colleague requesting they join your development team. [Invite Person](#)

Invite Multiple People to Your Team

 Send invitations to a list of colleagues requesting they join your development team. [Bulk Invite](#)



Invite Team Member

Member Center – Apple Developer
developer.apple.com/membercenter/index.action#allpeople

Developer Member Center

People Servers Programs & Add-ons Your Account

Organization: Apple Inc. – Business Markets Enterprise Hi, Dave Rahardja | Sign out

All People iOS Developers Invitations

Invite People to Your Team

Invite a Person to Your Team

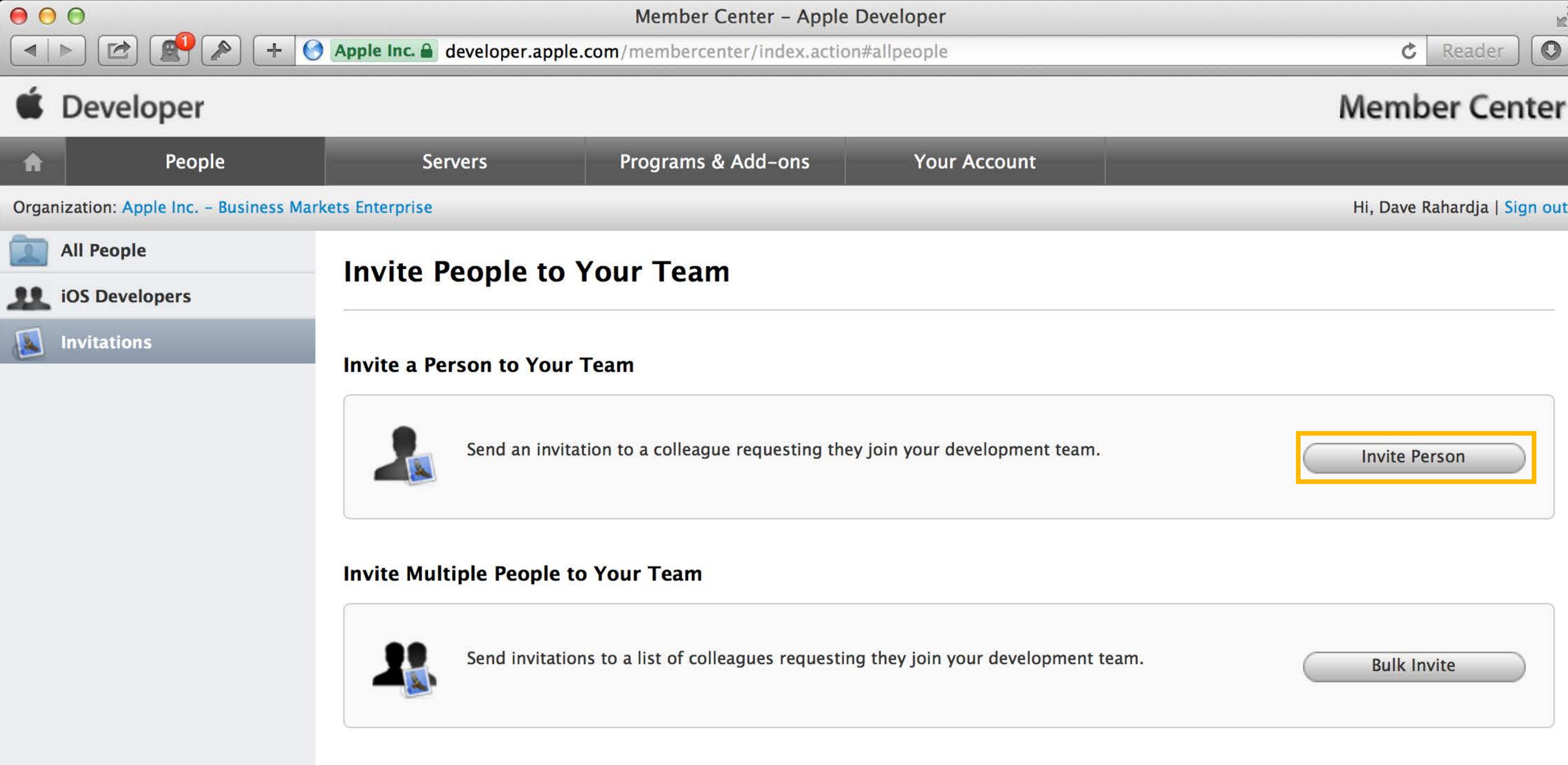
 Send an invitation to a colleague requesting they join your development team.

Invite Person

Invite Multiple People to Your Team

 Send invitations to a list of colleagues requesting they join your development team.

Bulk Invite



Invite Team Member

Member Center – Apple Developer

Apple Inc. developer.apple.com/membercenter/index.action#allpeople

Developer Member Center

People Servers Programs & Add-ons Your Account

Organization: Apple Inc. – Business Markets Enterprise Hi, Dave Rahardja | Sign out

All People iOS Developers Invitations

Invite a Person to Your Team

Contact Information

First Name: Ann

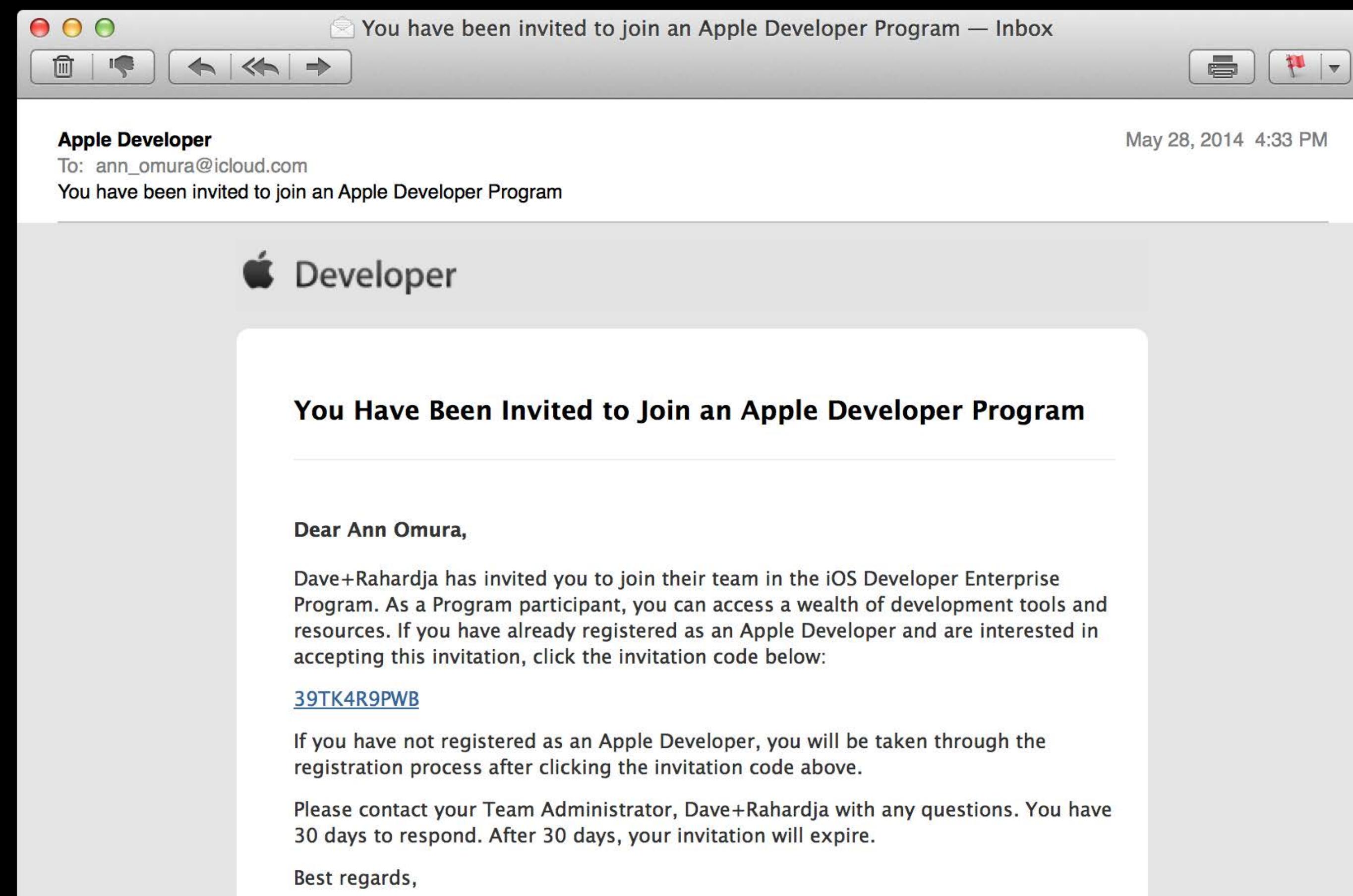
Last Name: Omura

Email Address: ann_omura@icloud.com

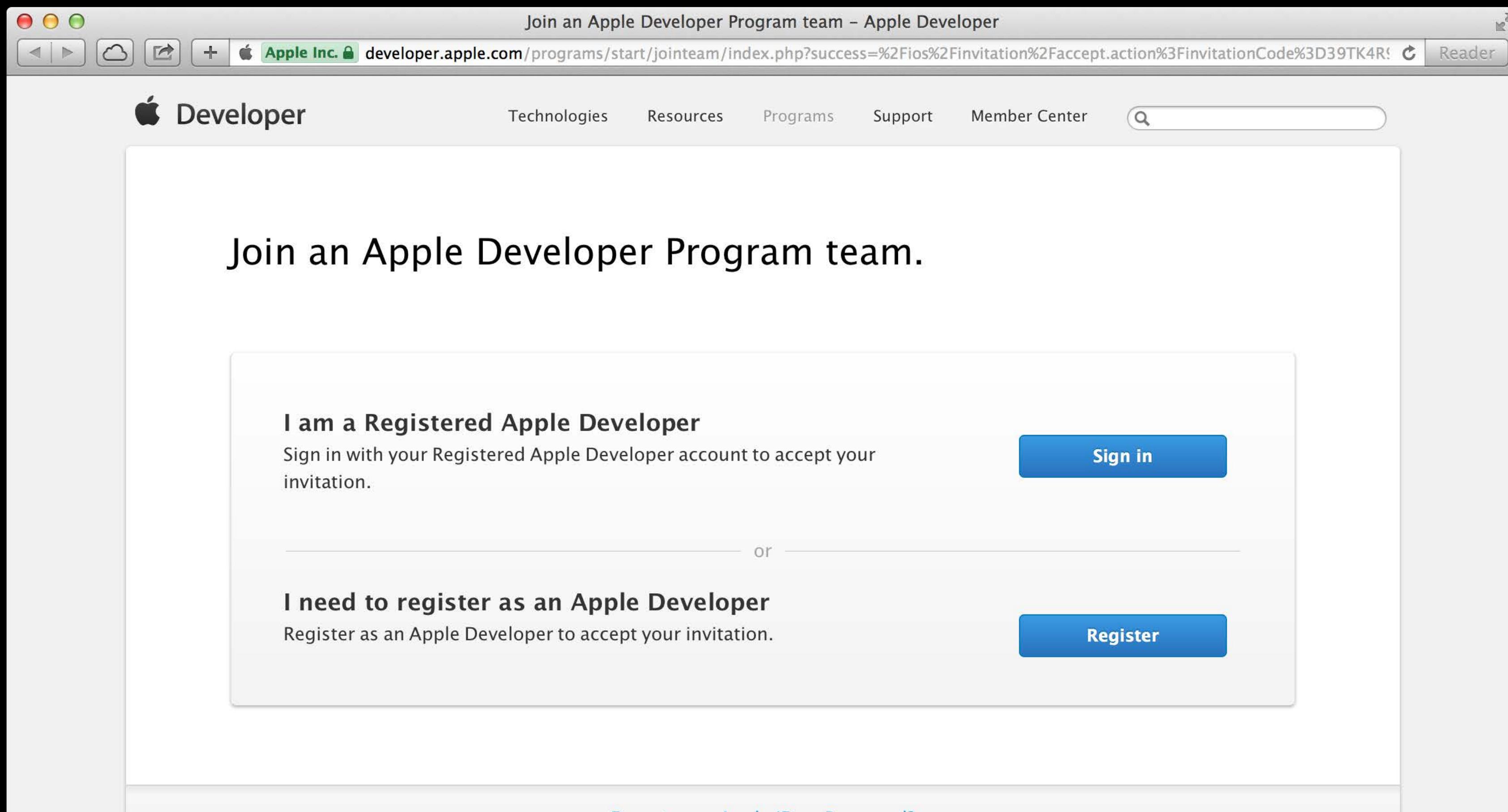
Access and Roles

The screenshot shows the Apple Developer Member Center interface. The main title is "Member Center – Apple Developer". The URL in the address bar is "developer.apple.com/membercenter/index.action#allpeople". The top navigation bar includes links for "Developer", "Member Center", "People", "Servers", "Programs & Add-ons", and "Your Account". The user is signed in as "Hi, Dave Rahardja" with a "Sign out" link. The sidebar on the left has links for "All People", "iOS Developers", and "Invitations", with "Invitations" being the active tab. The main content area is titled "Invite a Person to Your Team" and contains a "Contact Information" section with fields for First Name (Ann), Last Name (Omura), and Email Address (ann_omura@icloud.com). Below this is a partially visible "Access and Roles" section.

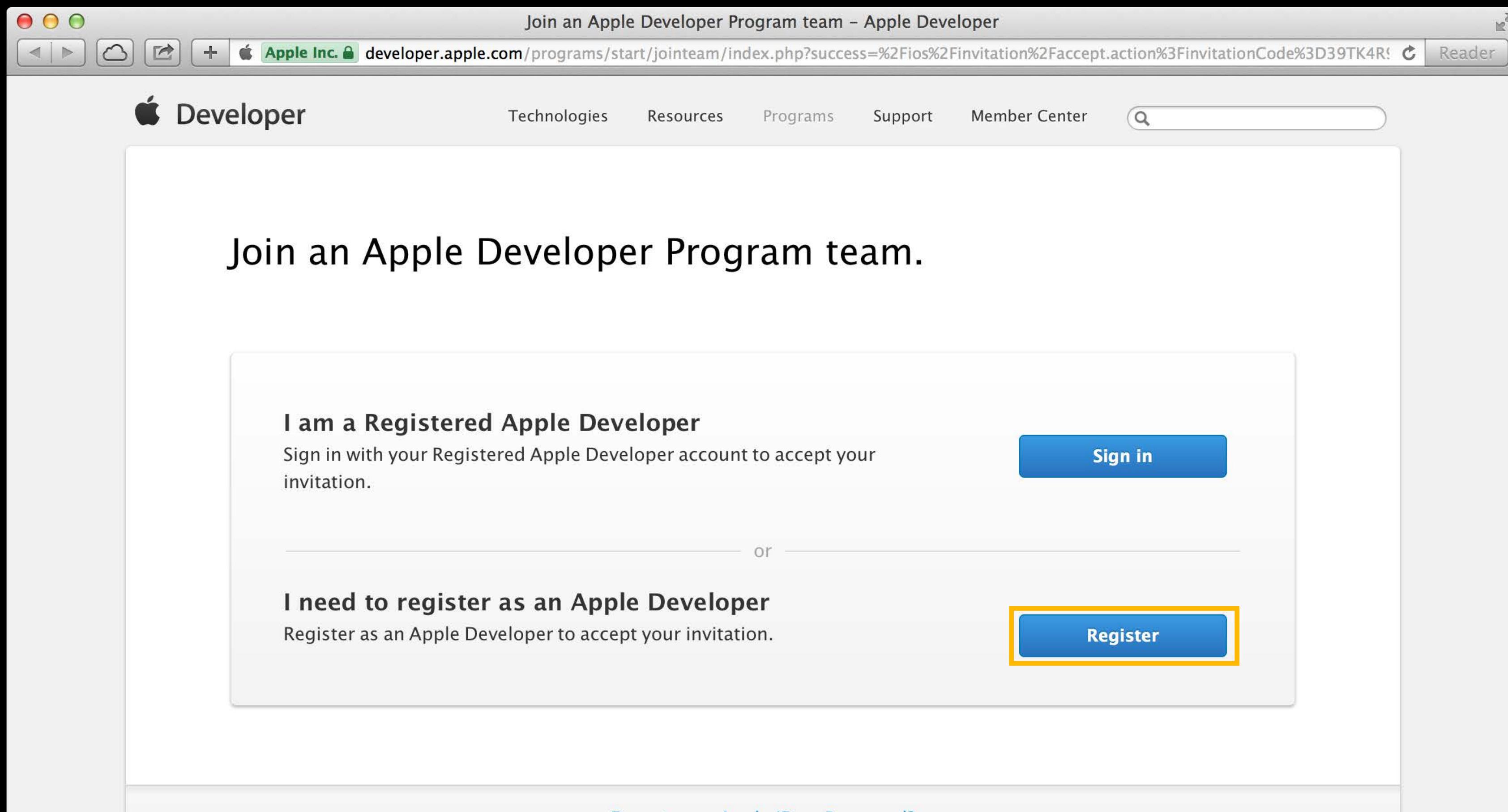
Accept Invitation



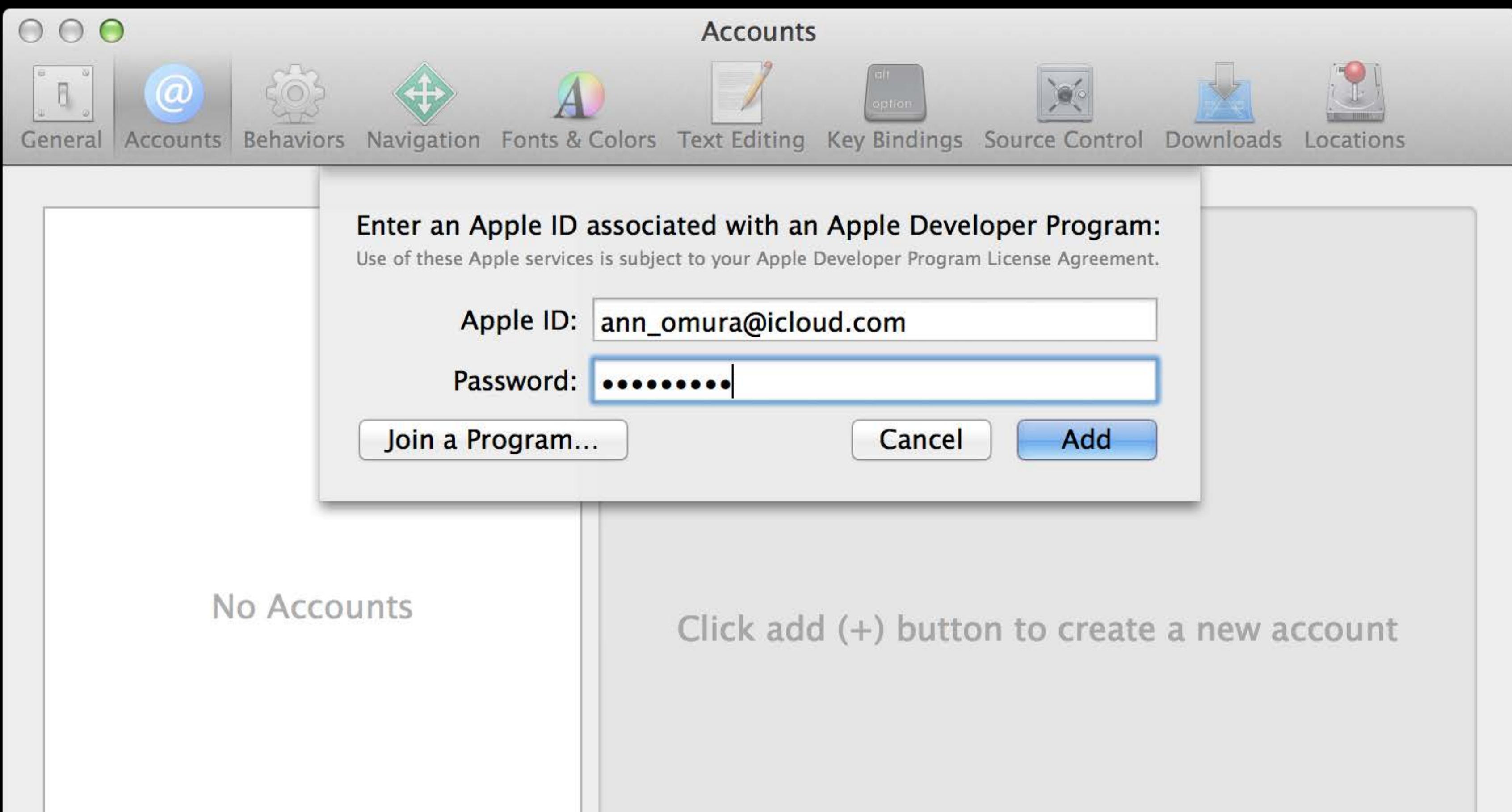
Accept Invitation



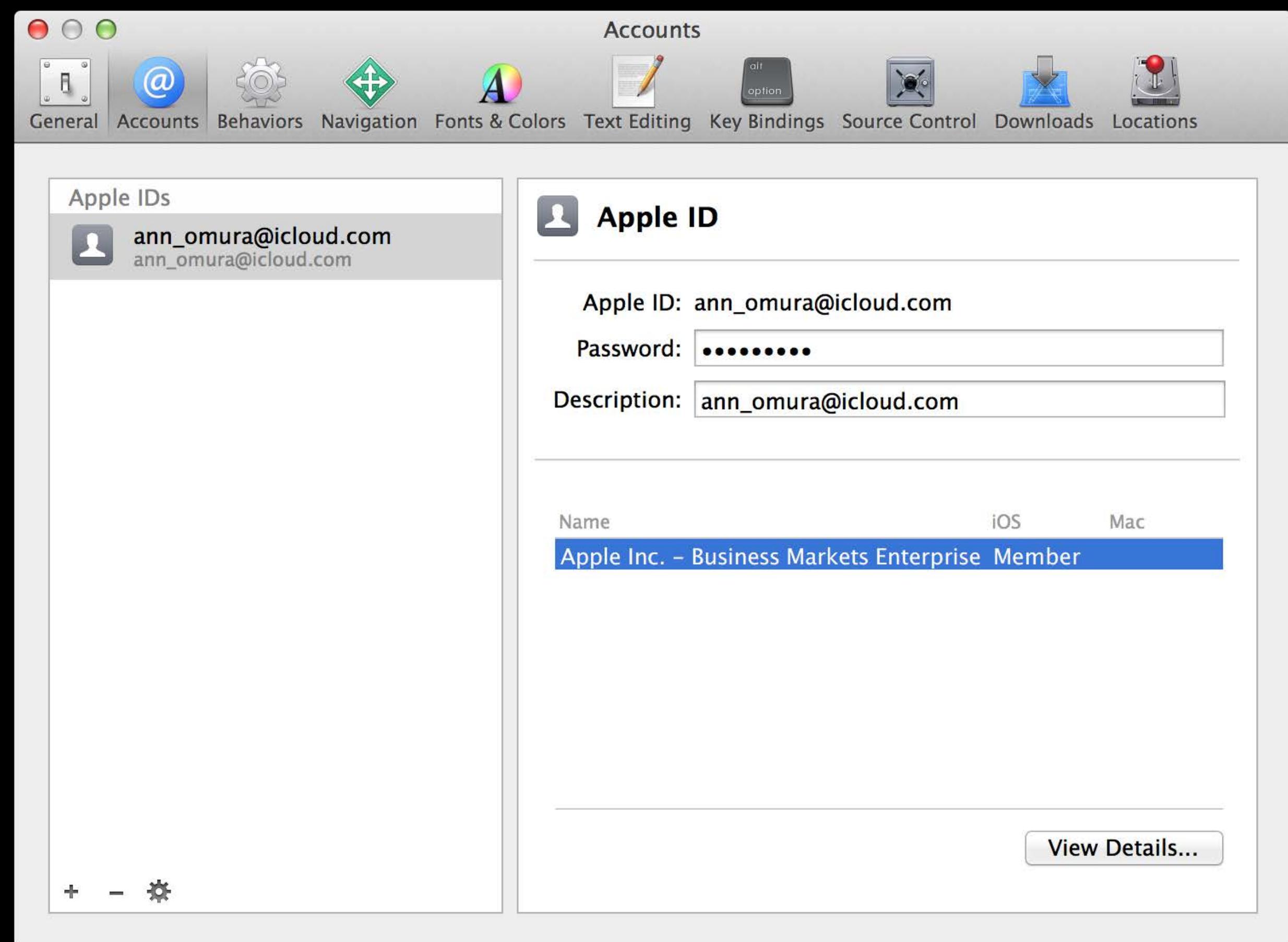
Accept Invitation



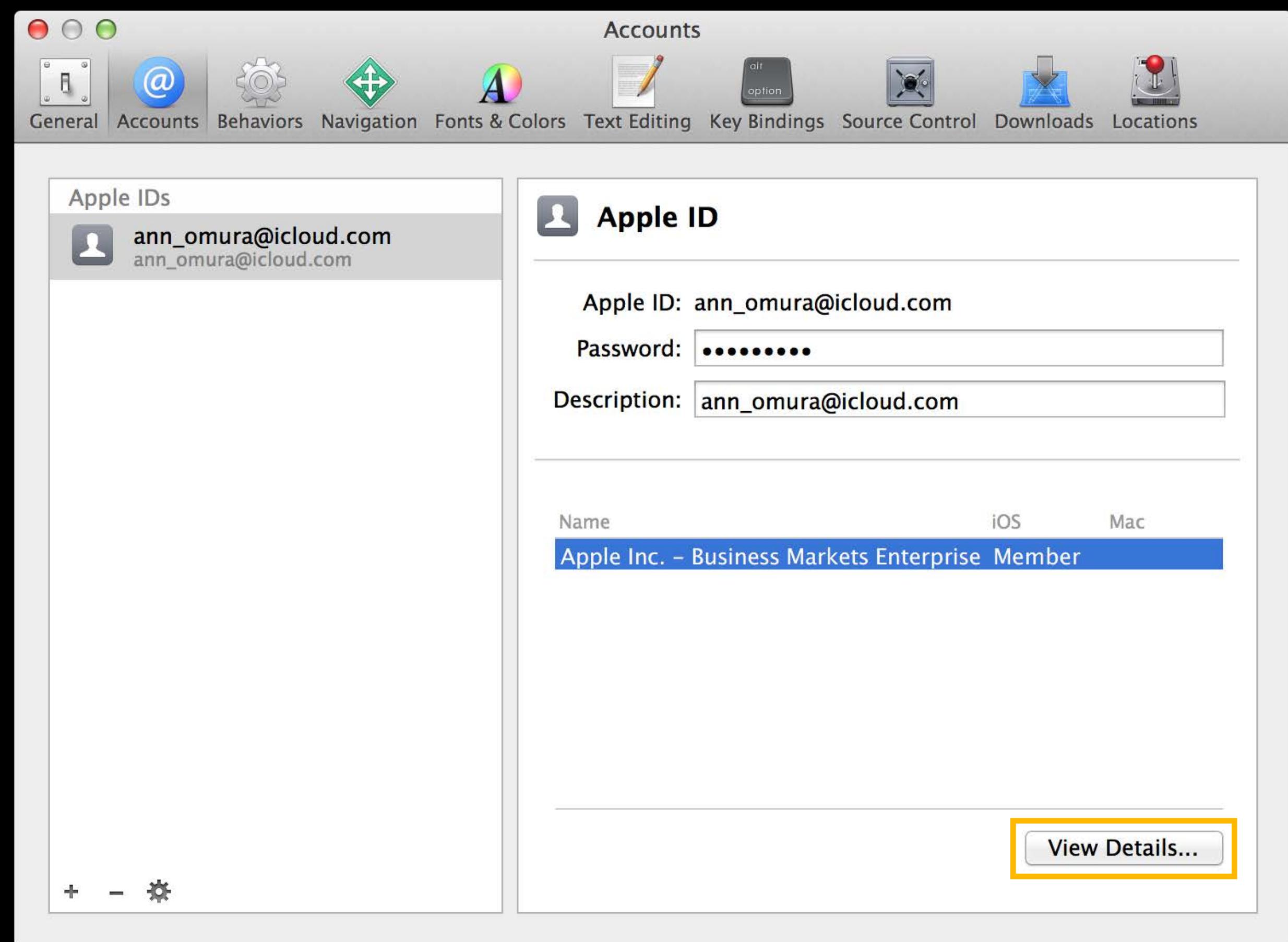
Add Account to Xcode



Request Code Signing Certificate



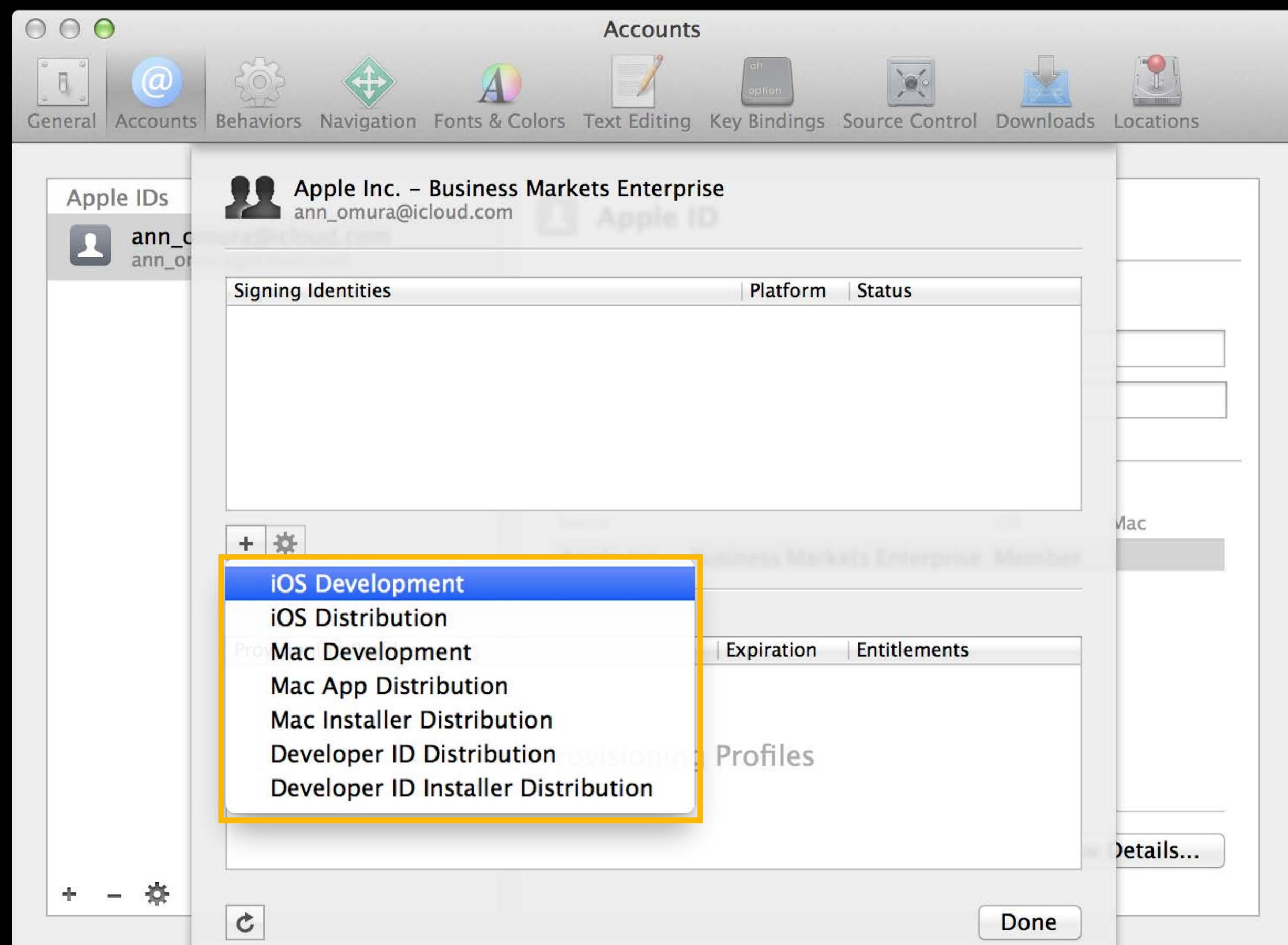
Request Code Signing Certificate



Request Code Signing Certificate



Request Code Signing Certificate



Approve Code Signing Certificate

iOS Certificates – Apple Developer
Apple Inc. developer.apple.com/account/ios/certificate/certificateList.action

Developer Technologies Resources Programs Support Member Center Search Developer Dave Rahardja ▾

Certificates, Identifiers & Profiles

iOS Apps Certificates Identifiers Devices Provisioning Profiles

Certificates All Pending Development Production

Identifiers App IDs Pass Type IDs Website Push IDs

Devices All

Provisioning Profiles

iOS Certificates

4 Certificates Total

Name	Type	Expires
Ann Omura	iOS Development	Pending Approval
Dave Rahardja	iOS Development	Jun 26, 2014
Dave Rahardja	iOS Development	May 28, 2015
Apple Inc. – Business Markets Enterprise	iOS Distribution	May 27, 2017

Ann Omura
Name: Ann Omura
Type: iOS Development
Requested: May 28, 2014
Decline Approve

Dave Rahardja
Dave Rahardja
Apple Inc. – Business Markets Enterprise

Approve Code Signing Certificate

iOS Certificates – Apple Developer
Apple Inc. developer.apple.com/account/ios/certificate/certificateList.action

Developer Technologies Resources Programs Support Member Center Search Developer Dave Rahardja ▾

Certificates, Identifiers & Profiles

iOS Apps Certificates Identifiers Devices Provisioning Profiles

Certificates All Pending Development Production

Identifiers App IDs Pass Type IDs Website Push IDs

Devices All

Provisioning Profiles

iOS Certificates

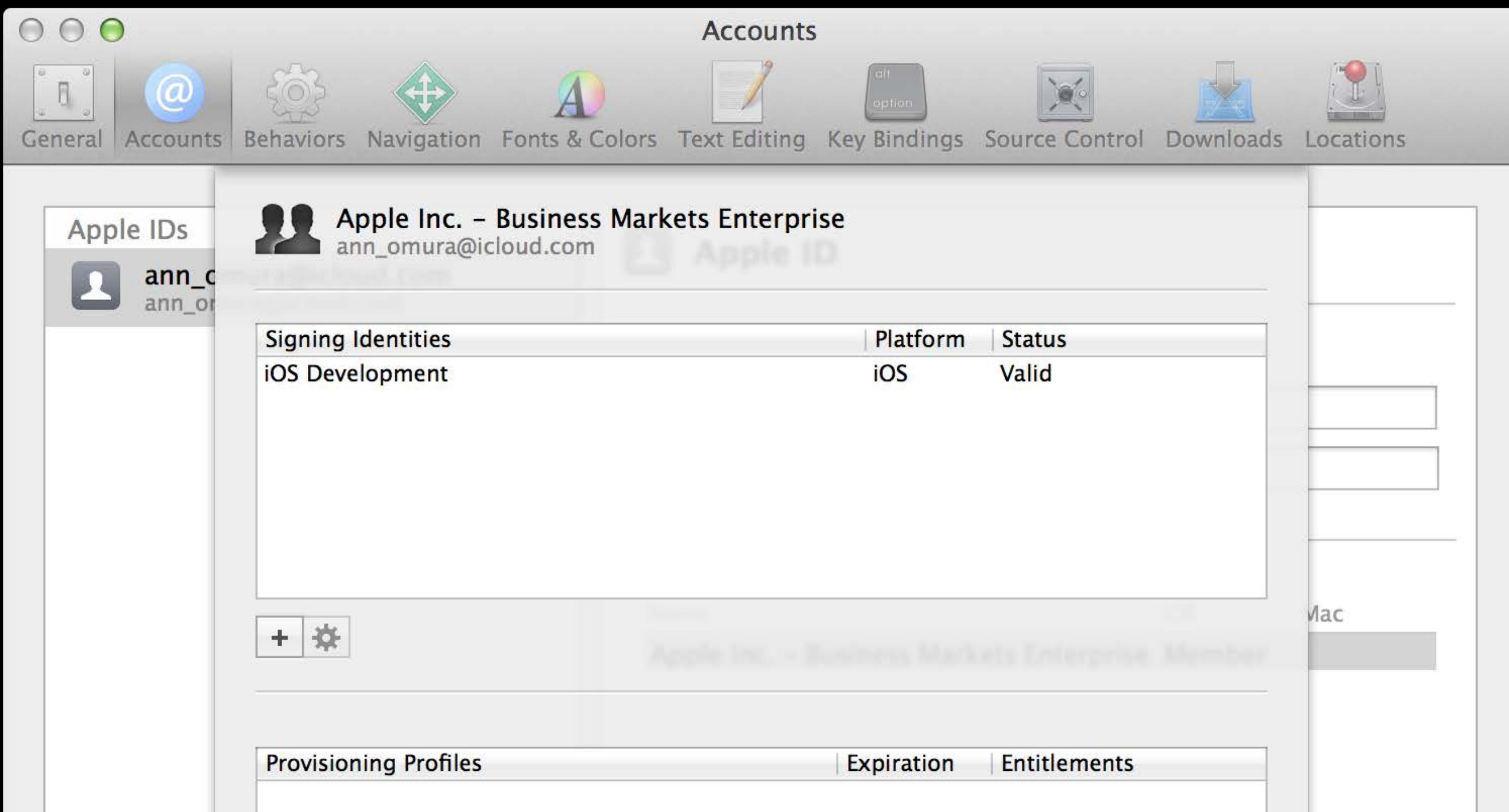
4 Certificates Total

Name	Type	Expires
Ann Omura	iOS Development	Pending Approval
Dave Rahardja	iOS Development	Jun 26, 2014
Dave Rahardja	iOS Development	May 28, 2015
Apple Inc. – Business Markets Enterprise	iOS Distribution	May 27, 2017

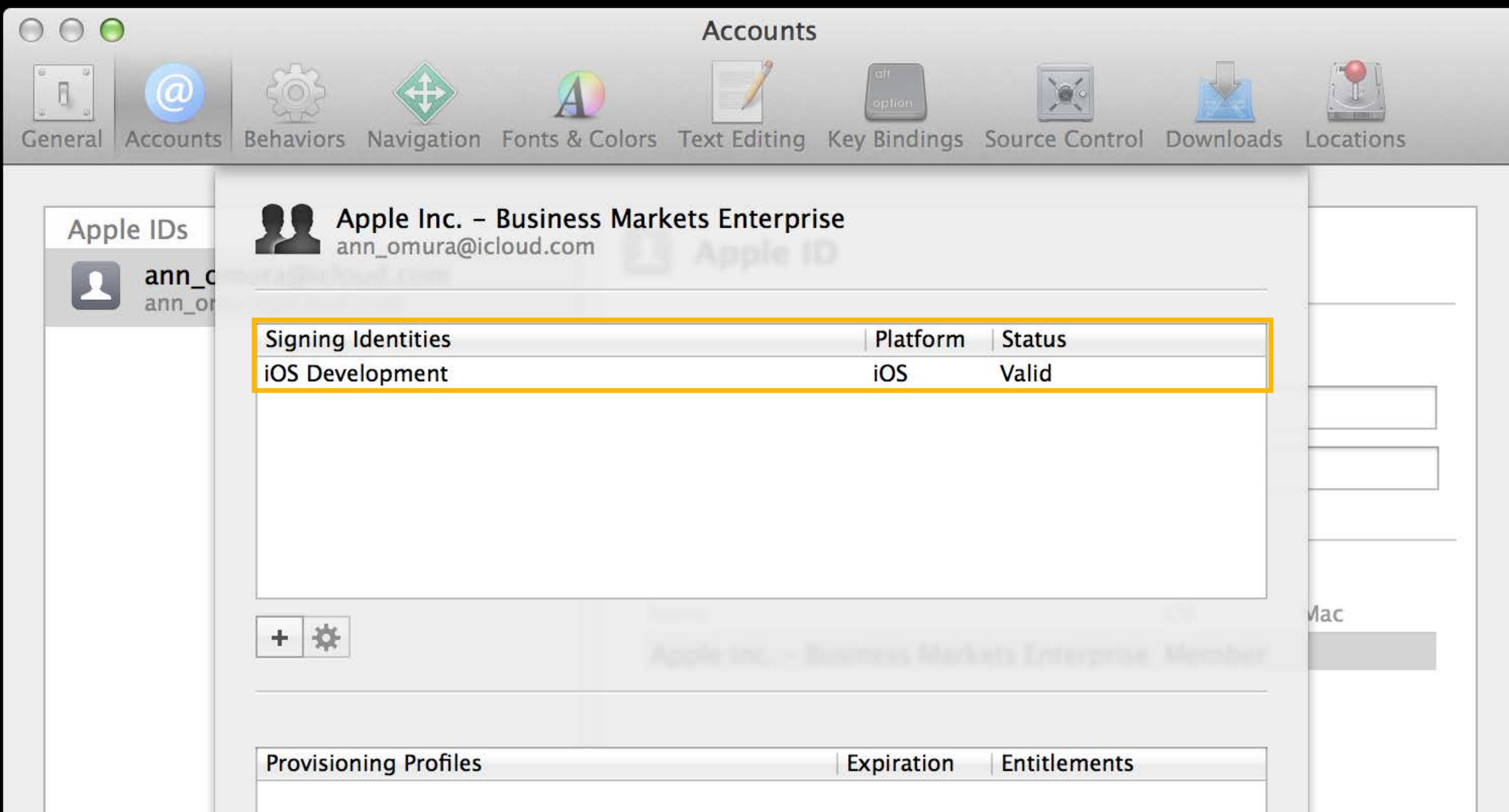
Ann Omura
Name: Ann Omura
Type: iOS Development
Requested: May 28, 2014
Decline Approve

Dave Rahardja
Dave Rahardja
Apple Inc. – Business Markets Enterprise

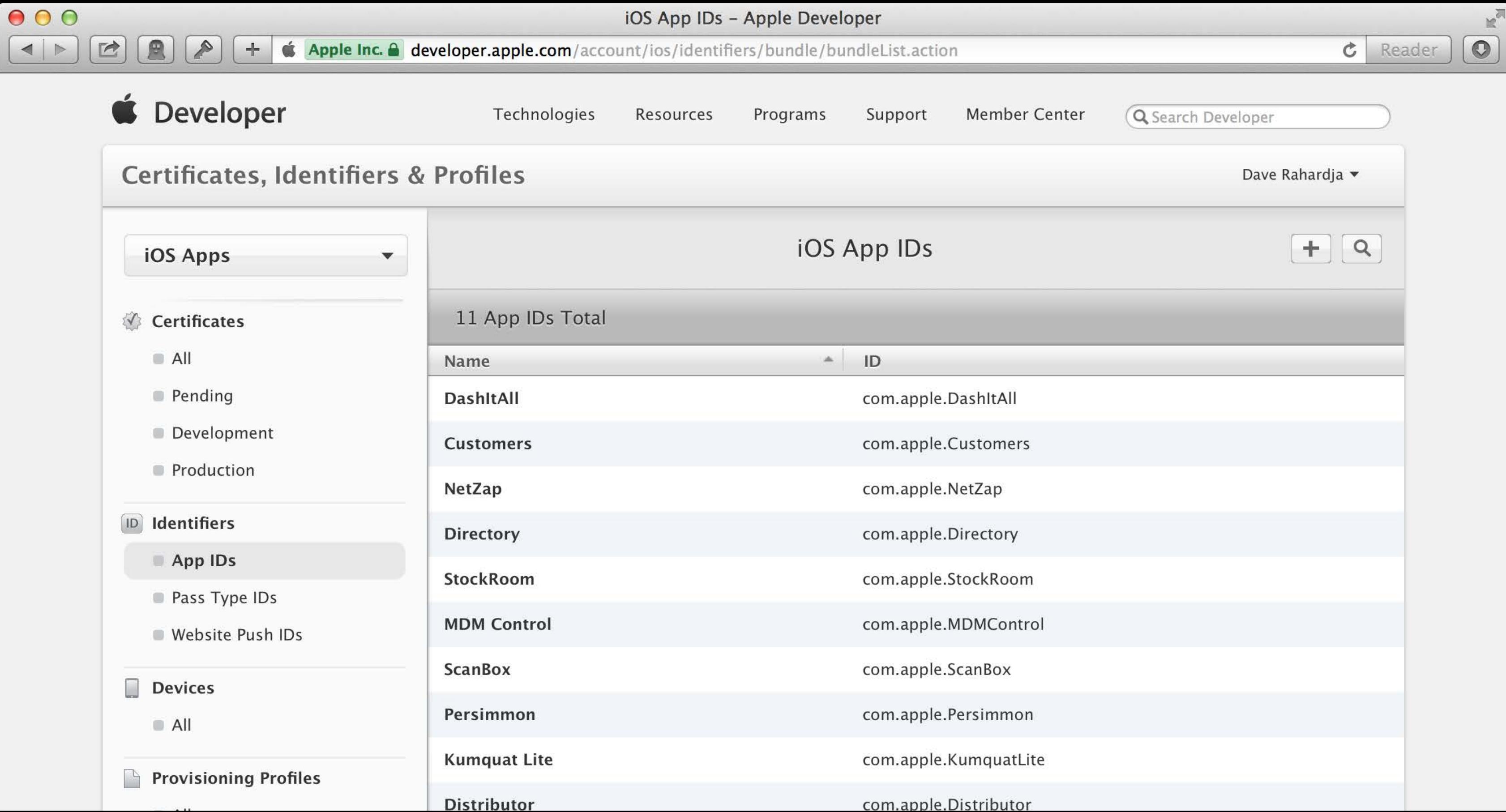
Code Signing Certificate



Code Signing Certificate



Create App IDs



The screenshot shows the "Certificates, Identifiers & Profiles" section of the Apple Developer portal. The left sidebar is set to "iOS Apps" and has filters for Certificates (All, Pending, Development, Production) and Identifiers (App IDs, Pass Type IDs, Website Push IDs). The main area displays a table of 11 App IDs:

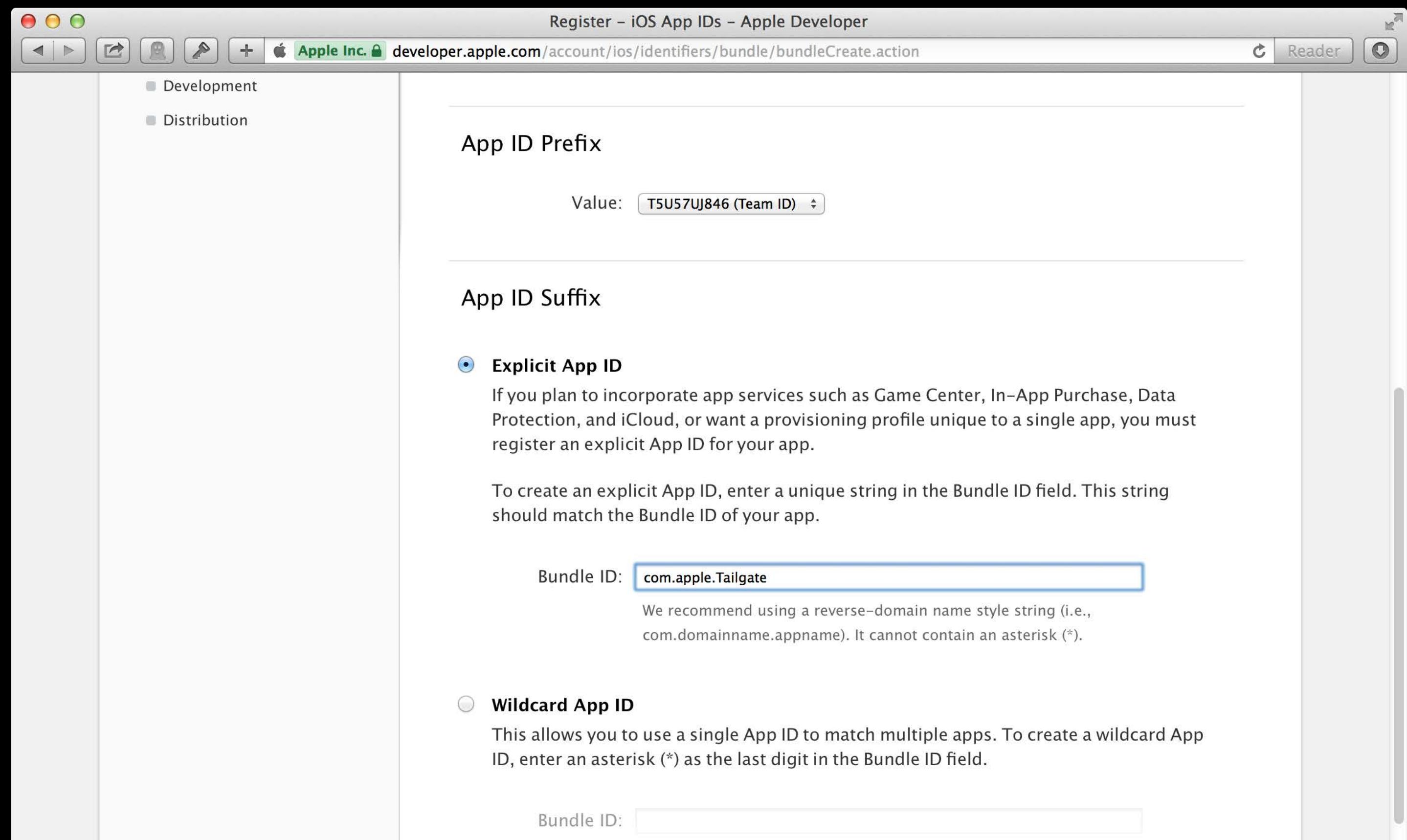
Name	ID
DashItAll	com.apple.DashItAll
Customers	com.apple.Customers
NetZap	com.apple.NetZap
Directory	com.apple.Directory
StockRoom	com.apple.StockRoom
MDM Control	com.apple.MDMControl
ScanBox	com.apple.ScanBox
Persimmon	com.apple.Persimmon
Kumquat Lite	com.apple.KumquatLite
Distributor	com.apple.Distributor

Create App IDs

The screenshot shows the "Certificates, Identifiers & Profiles" section of the Apple Developer portal. The left sidebar is set to "iOS Apps". Under "Identifiers", the "App IDs" option is selected and highlighted with a yellow box. The main area displays a table of existing App IDs, with a total of 11 listed. A yellow box highlights the "+" button in the top right corner of the table header, indicating where to click to create a new App ID.

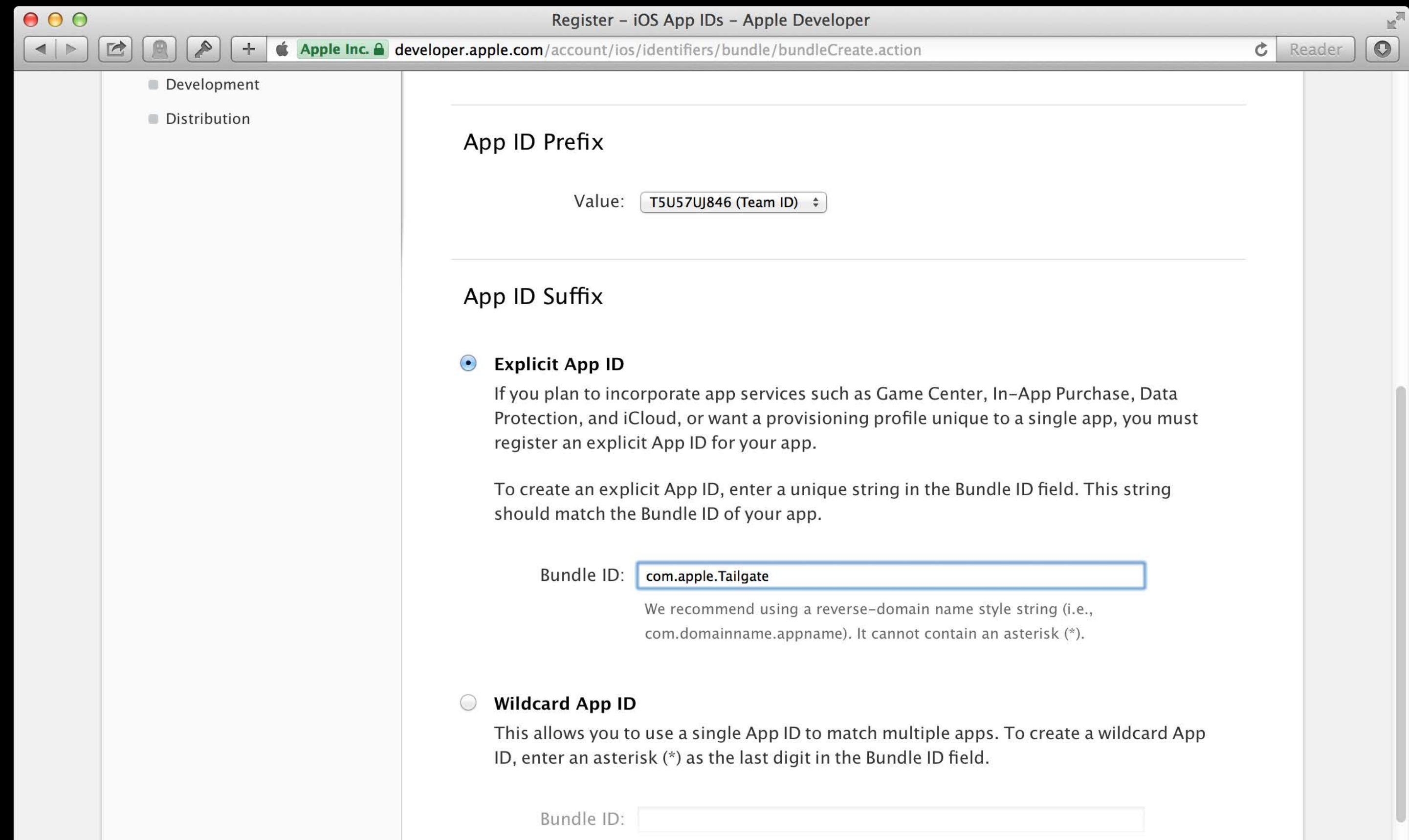
Name	ID
DashItAll	com.apple.DashItAll
Customers	com.apple.Customers
NetZap	com.apple.NetZap
Directory	com.apple.Directory
StockRoom	com.apple.StockRoom
MDM Control	com.apple.MDMControl
ScanBox	com.apple.ScanBox
Persimmon	com.apple.Persimmon
Kumquat Lite	com.apple.KumquatLite
Distributor	com.apple.Distributor

Create App IDs



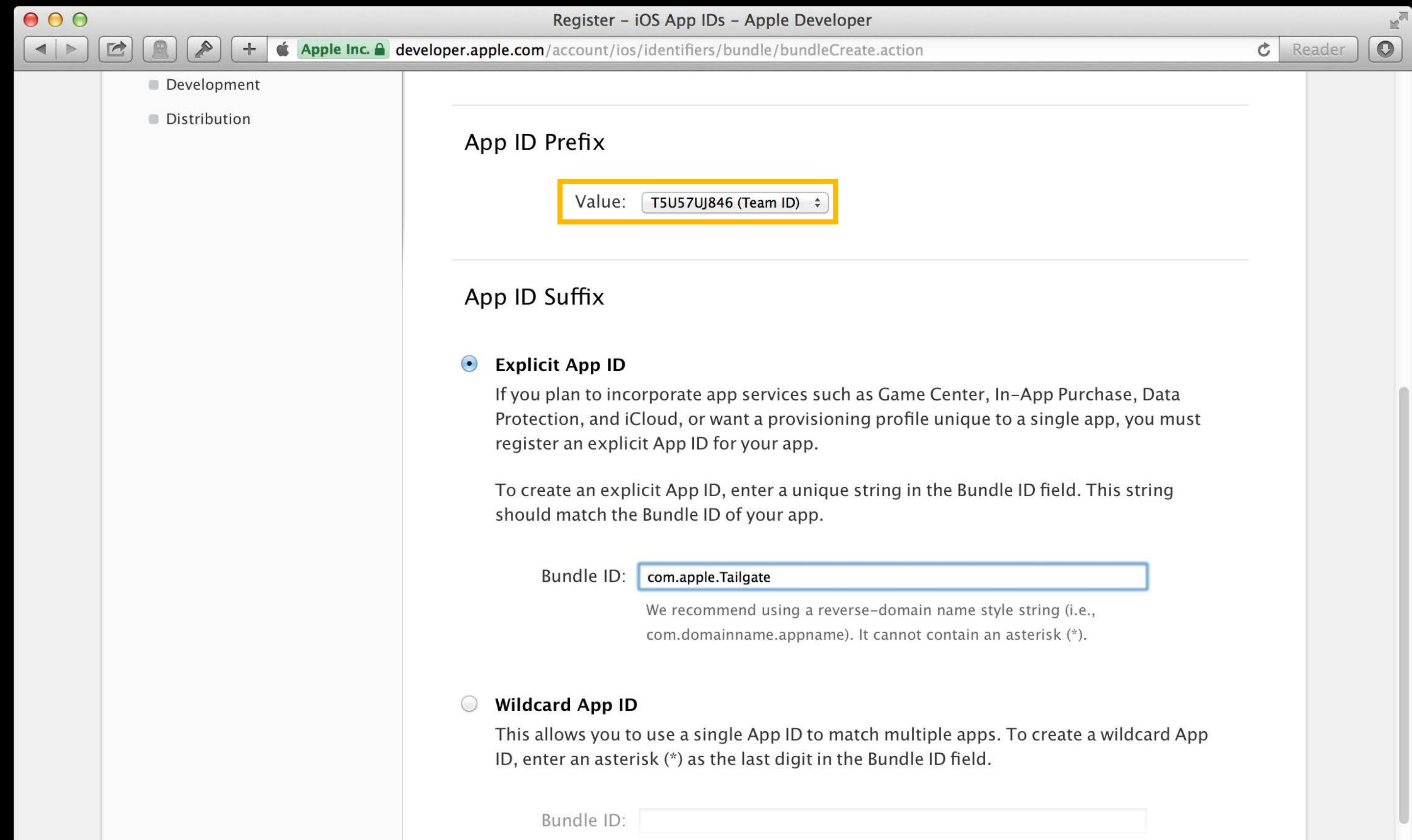
Create App IDs

Create App ID to begin development



Create App IDs

Create App ID to
begin development
Use Team ID prefix

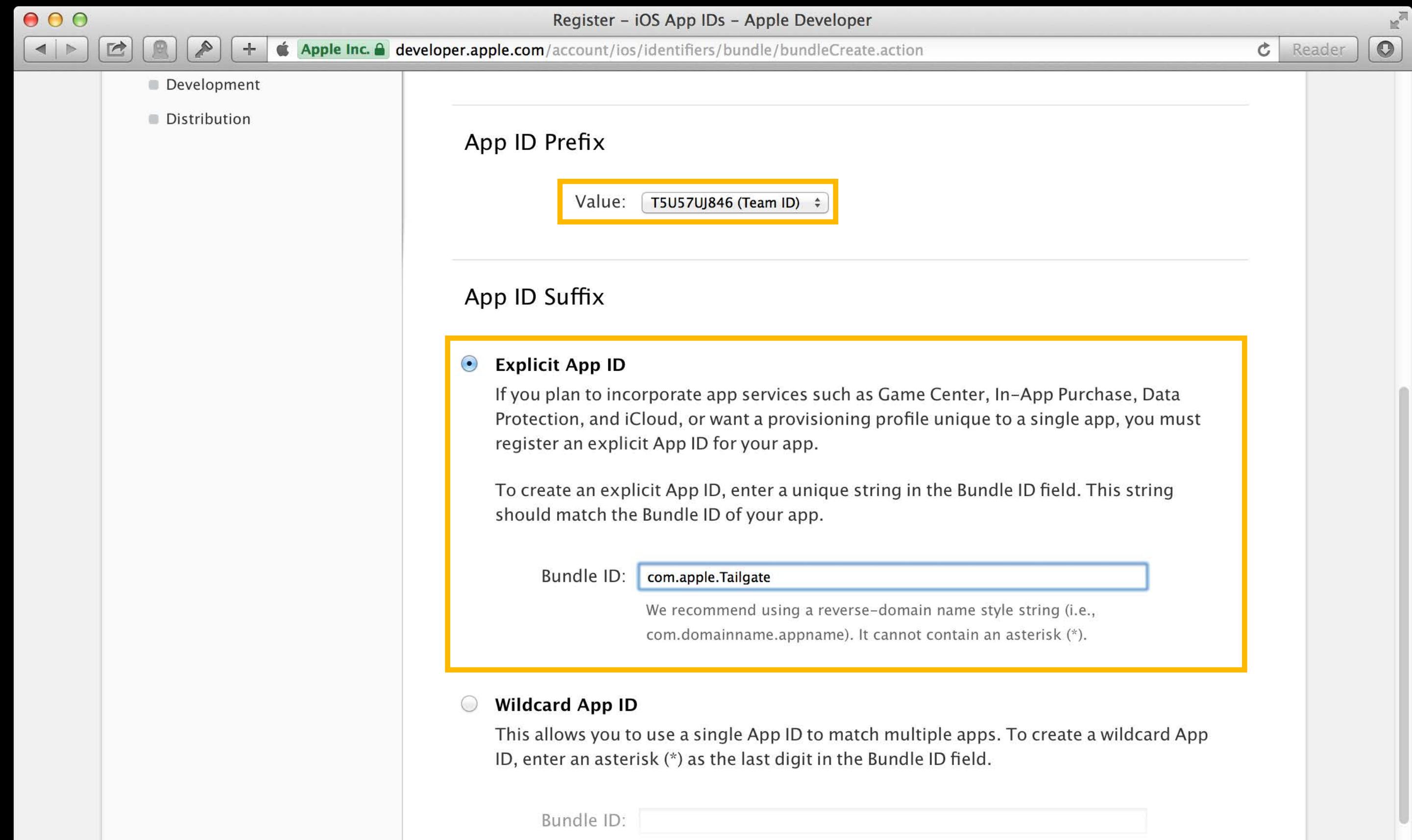


Create App IDs

Create App ID to begin development

Use Team ID prefix

Use explicit App ID



Summary

Enroll in iOS Developer Enterprise Program

Agent and Admins should be employees

Contractors should be Team Members

Invite Team Members

Approve code signing certificate requests

Create App IDs to begin development

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Xcode Server

Hub for development

Install OS X Server from Mac App Store

Install Xcode

Enable Xcode service



Setup

Setup

Log in with your Enterprise account

The screenshot shows the OS X Server application window for the Xcode service. The sidebar on the left lists various services: SERVER (indah, Alerts, Certificates, Logs, Stats), ACCOUNTS (Users, Groups), SERVICES (Caching, Calendar, Contacts, File Sharing, Mail, Messages, Profile Manager, Time Machine, VPN, Websites, Wiki), and ADVANCED (Xcode). The Xcode service is selected, indicated by a blue bar at the bottom of the sidebar.

Xcode Service Configuration

Access

Status: Available on your local network at `indah.local`
Learn about configuring devices for this service [+](#)

Permissions: Logged in users can create bots, anyone can view bots [Edit...](#)

Builds

Perform builds using: Xcode 6.0 (6A179o) [Choose...](#)

Developer Teams: Apple Inc. - Business Markets Enterprise [Edit...](#)

Devices

	iPod touch iPod touch (5th generation) / 8.0	Apple Inc. - Business Markets Enter...

Setup

Log in with your Enterprise account

The screenshot shows the OS X Server application window. On the left, a sidebar lists various services: SERVER (indah, Alerts, Certificates, Logs, Stats), ACCOUNTS (Users, Groups), SERVICES (Caching, Calendar, Contacts, File Sharing, Mail, Messages, Profile Manager, Time Machine, VPN, Websites, Wiki), and ADVANCED (Xcode). The Xcode service is currently selected, indicated by a blue bar at the bottom of the sidebar.

The main pane is titled "Server" and shows the "Xcode" service configuration. At the top right is a toggle switch labeled "OFF" and "ON". Below it are tabs for "Settings" and "Repositories".

Access:
Status: **Available on your local network at indah.local**
Learn about configuring devices for this service [⊕](#)

Permissions: Logged in users can create bots, anyone can view bots [Edit...](#)

Builds:
Perform builds using: Xcode 6.0 (6A179o) [Choose...](#)
Developer Teams: Apple Inc. - Business Markets Enterprise [Edit...](#)

Devices:
iPod touch
iPod touch (5th generation) / 8.0 Apple Inc. - Business Markets Enter...

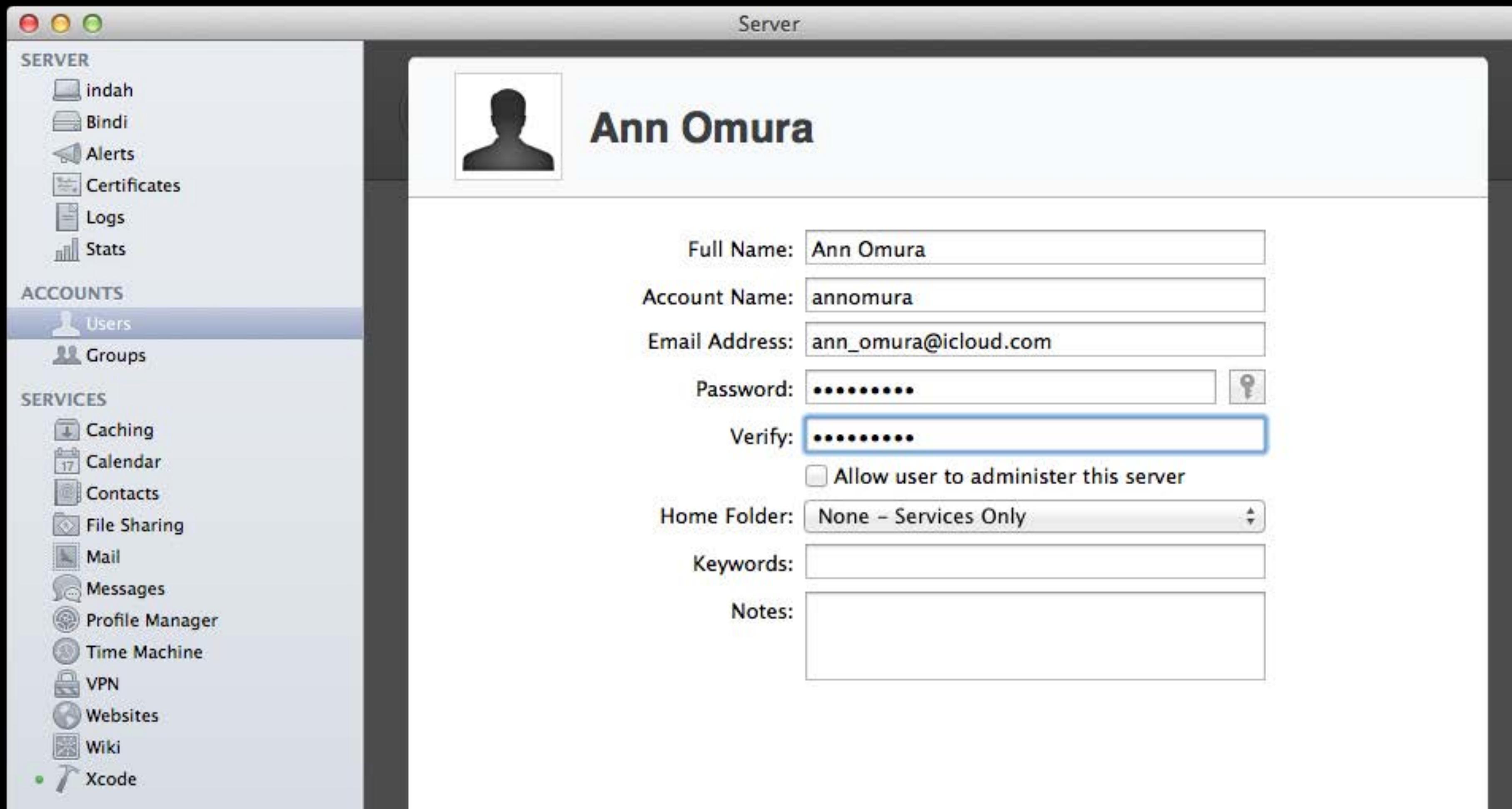
Setup

Server gets own code signing certificate



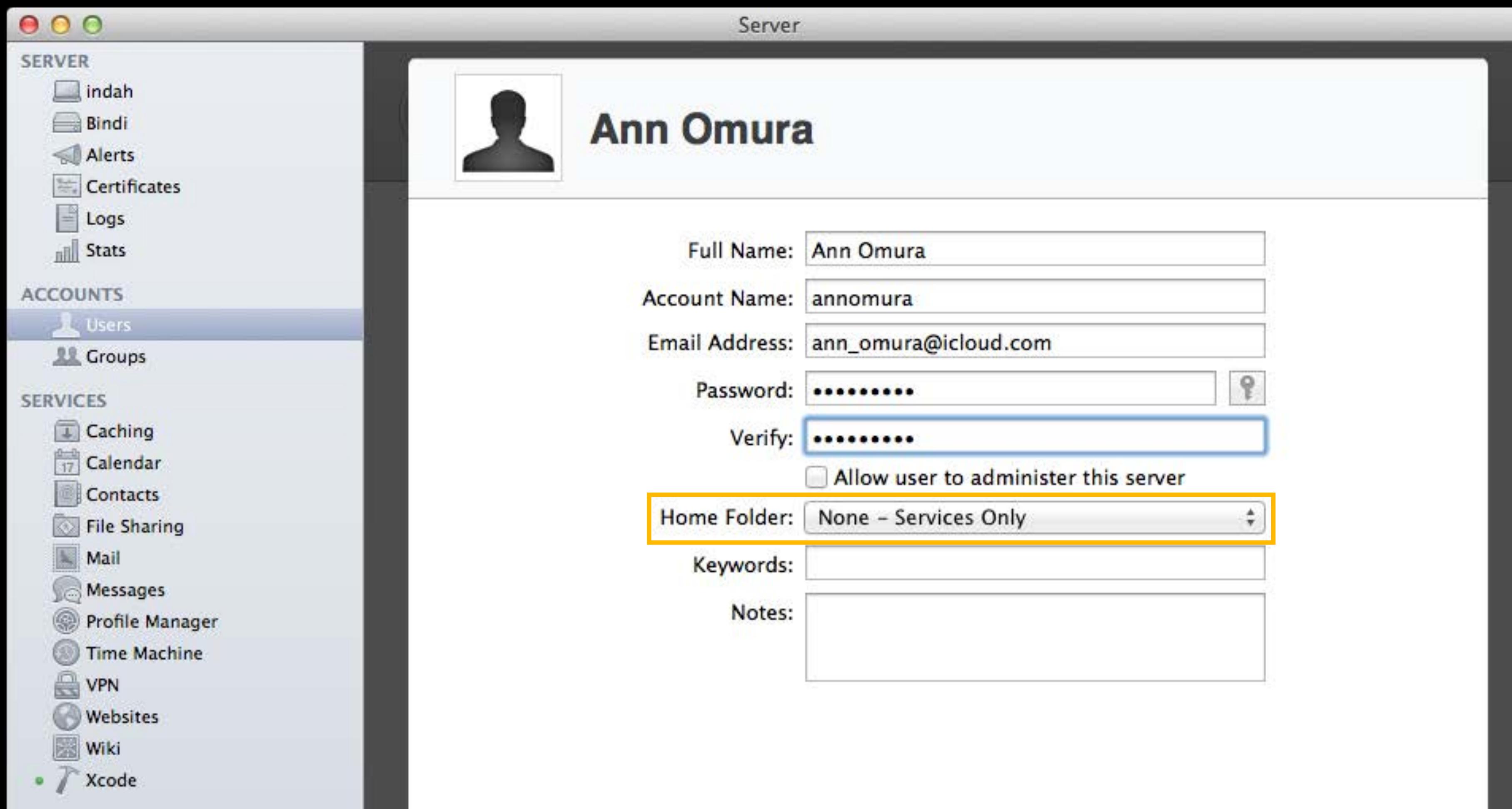
Users

Create a user for each Admin and Team Member



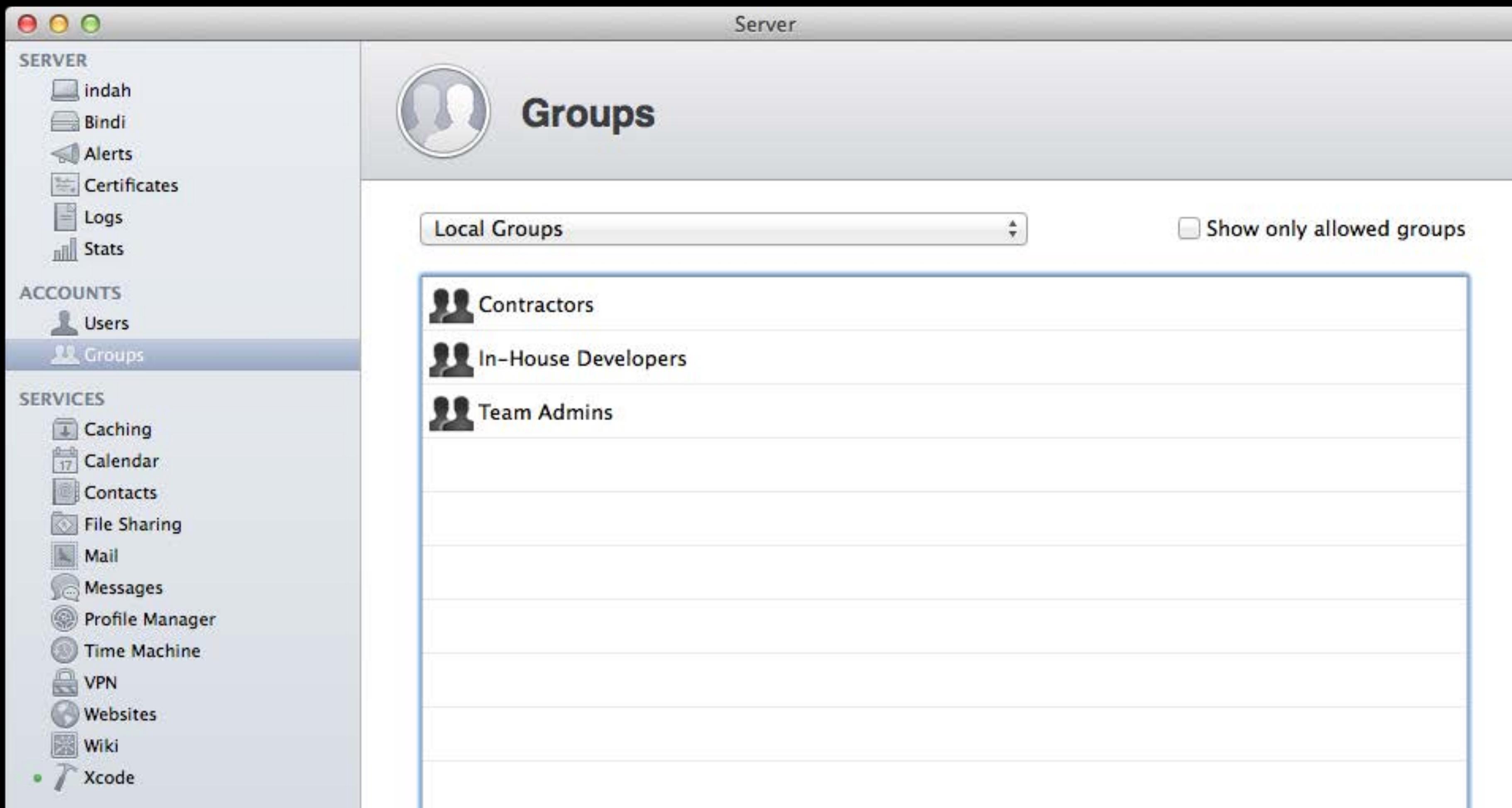
Users

Create a user for each Admin and Team Member



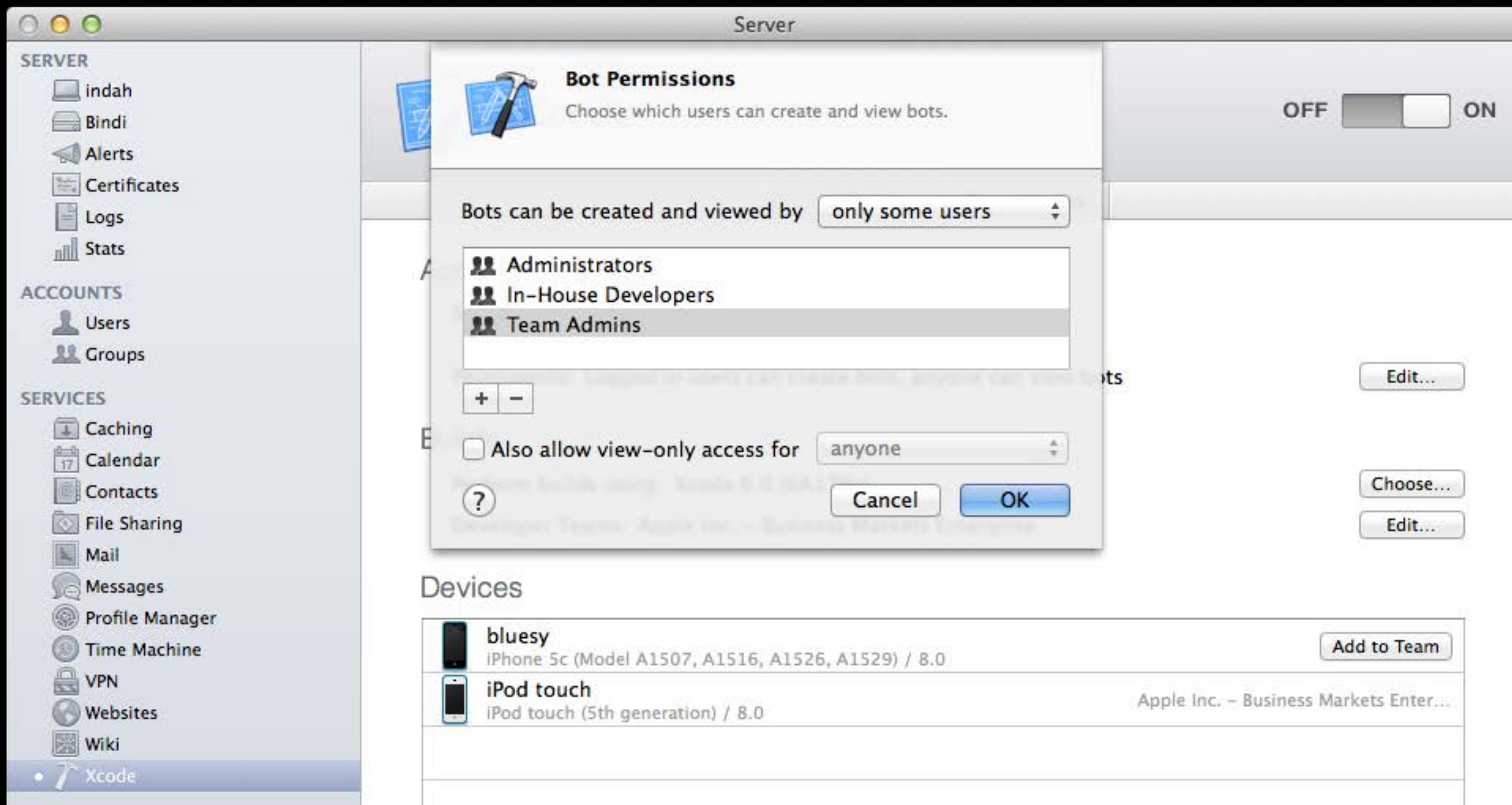
Users

Create groups



Users

Create access controls



Code Repository

Code Repository

The screenshot shows the Xcode Server interface. On the left, a sidebar lists various services: SERVER (indah, Alerts, Certificates, Logs, Stats), ACCOUNTS (Users, Groups), SERVICES (Caching, Calendar, Contacts, File Sharing, Mail, Messages, Profile Manager, Time Machine, VPN, Websites, Wiki), and ADVANCED (Xcode). The Xcode service is currently selected, indicated by a blue bar at the bottom of the sidebar.

The main pane is titled "Server" and features a "Xcode" icon with a hammer and wrench. A toggle switch labeled "OFF" and "ON" is positioned to the right of the icon. Below the icon, there are two tabs: "Settings" and "Repositories".

The "Access" section contains the following text: "Hosted repositories can be accessed over HTTP and HTTPS" with an "Edit..." button, and "Hosted repositories can be created by: Logged in users" with another "Edit..." button.

The "Repositories" section is titled "Hosted Repositories" and lists three entries:

- DashItAll**
https://indah.local/git/DashItAll.git
- RockOnTeam**
https://indah.local/git/RockOnTeam.git
- Scooter**
https://indah.local/git/Scooter.git

Code Repository

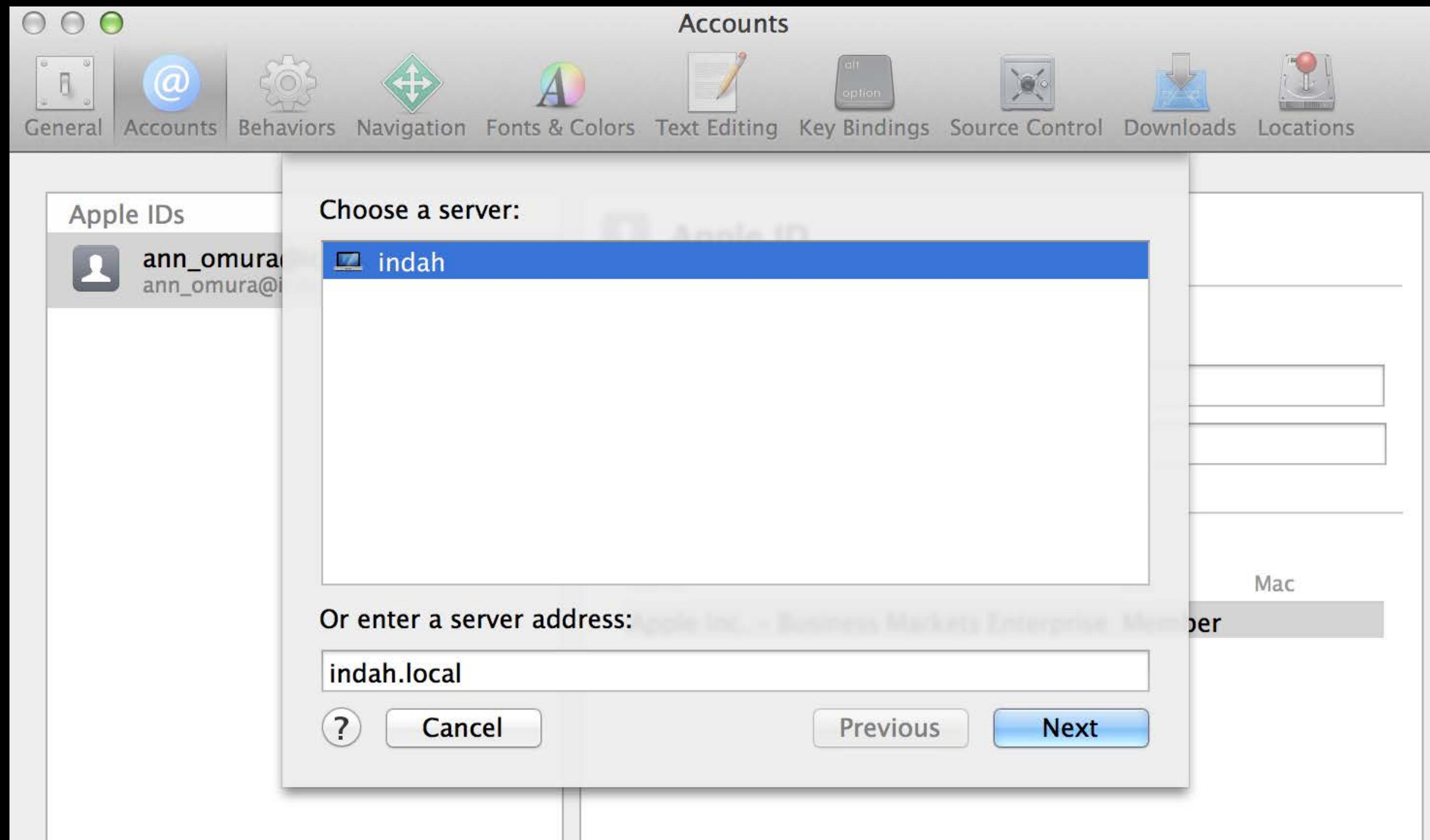
Git or Subversion

One repository per app

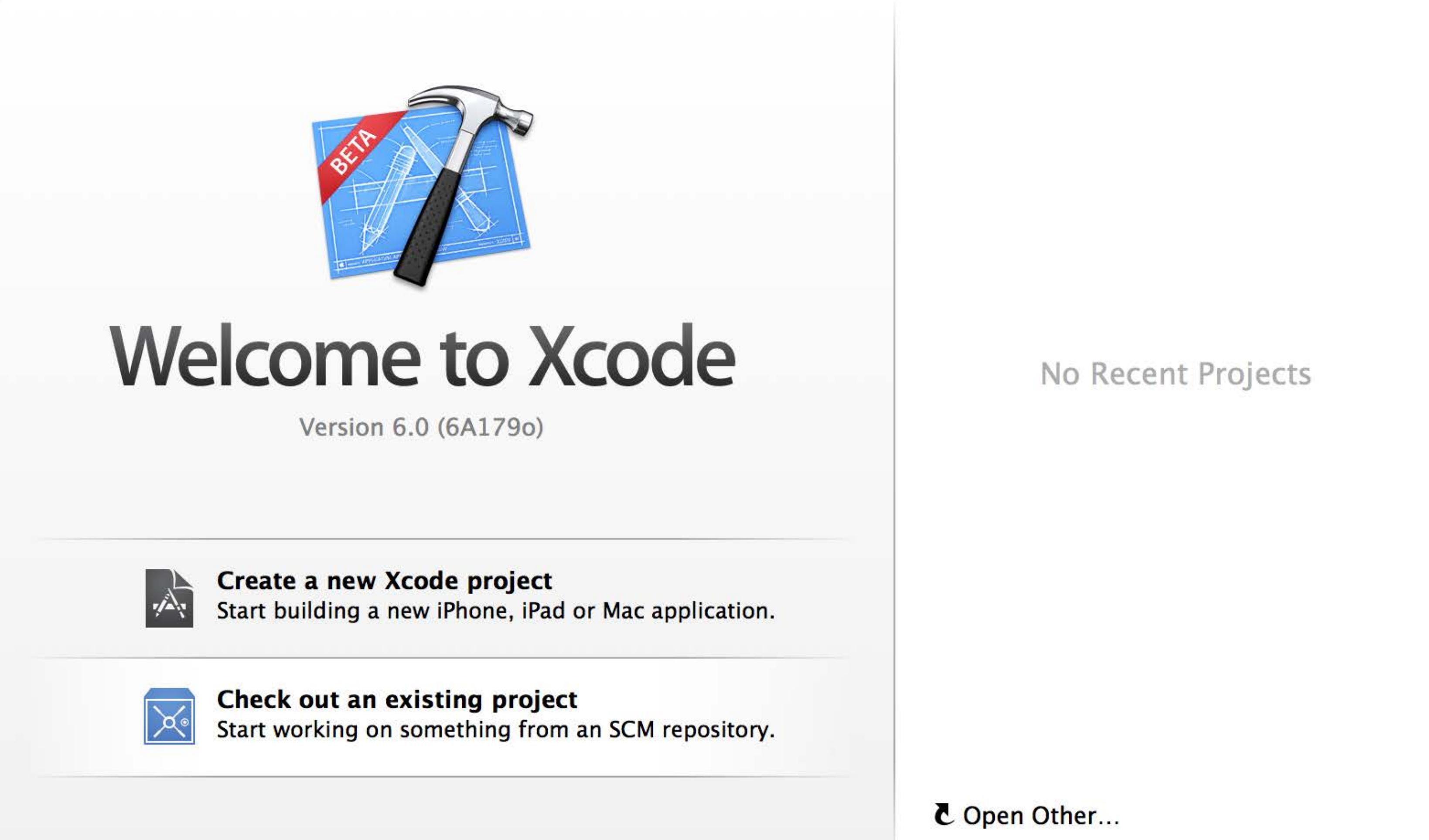
Create access controls

Initial Checkout

Add Server to Xcode



Initial Checkout



The image shows the initial welcome screen of Xcode 6.0. At the top center is a graphic of a claw hammer resting on a blue architectural blueprint. A red diagonal banner across the blueprint reads "BETA". Below the graphic, the text "Welcome to Xcode" is displayed in a large, bold, dark font. Underneath that, "Version 6.0 (6A179o)" is shown in a smaller, gray font. To the right, the text "No Recent Projects" is visible. At the bottom, there are two main options: "Create a new Xcode project" with a document icon and "Check out an existing project" with a folder icon. Both options include descriptive text below them. On the far right, there is a link "Open Other..." with a circular arrow icon.

Welcome to Xcode

Version 6.0 (6A179o)

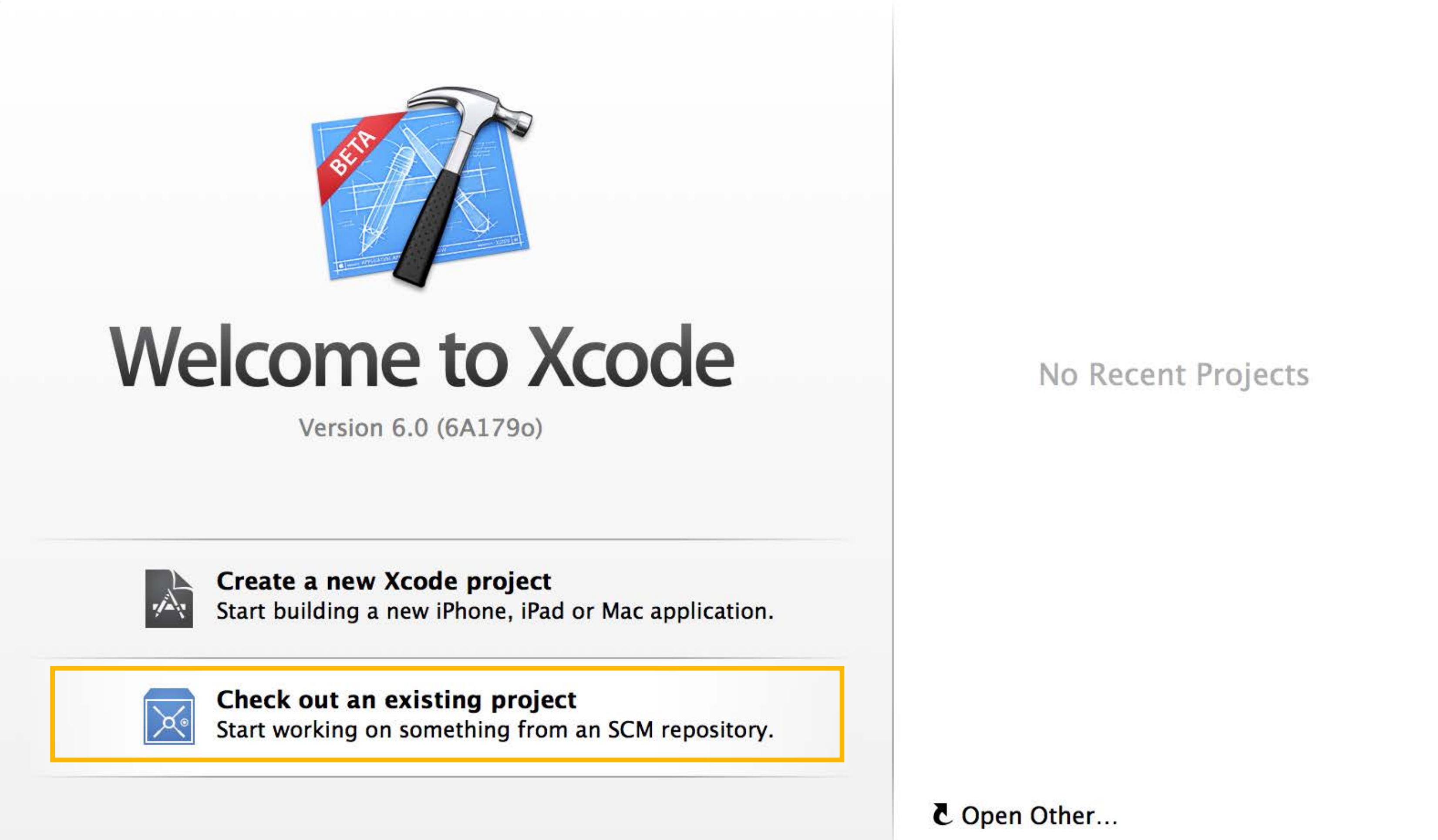
 **Create a new Xcode project**
Start building a new iPhone, iPad or Mac application.

 **Check out an existing project**
Start working on something from an SCM repository.

 Open Other...

No Recent Projects

Initial Checkout



The image shows the initial welcome screen of Xcode 6.0. At the top center is a graphic of a claw hammer resting on a blue architectural blueprint. A red diagonal banner across the blueprint reads "BETA". Below the graphic, the text "Welcome to Xcode" is displayed in a large, bold, dark font. Underneath that, "Version 6.0 (6A179o)" is shown in a smaller, gray font. To the right, the text "No Recent Projects" is visible. At the bottom left, there are two main options: "Create a new Xcode project" with a document icon and "Check out an existing project" with a folder icon. The "Check out an existing project" option is highlighted with a yellow border. At the very bottom right, there is a link "Open Other..." with a circular arrow icon.

Welcome to Xcode

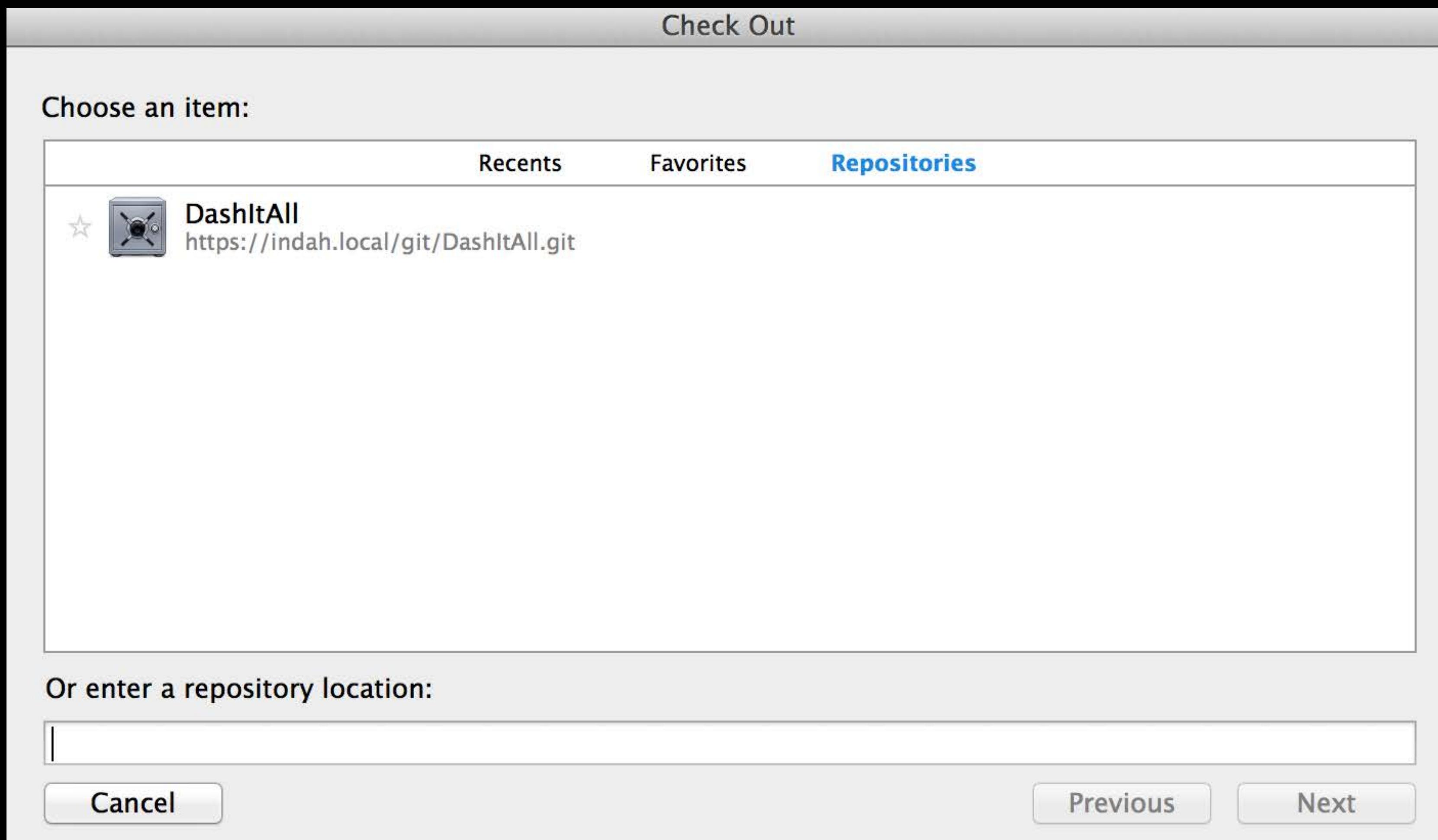
Version 6.0 (6A179o)

Create a new Xcode project
Start building a new iPhone, iPad or Mac application.

Check out an existing project
Start working on something from an SCM repository.

Open Other...

Initial Checkout



Bots

Bots

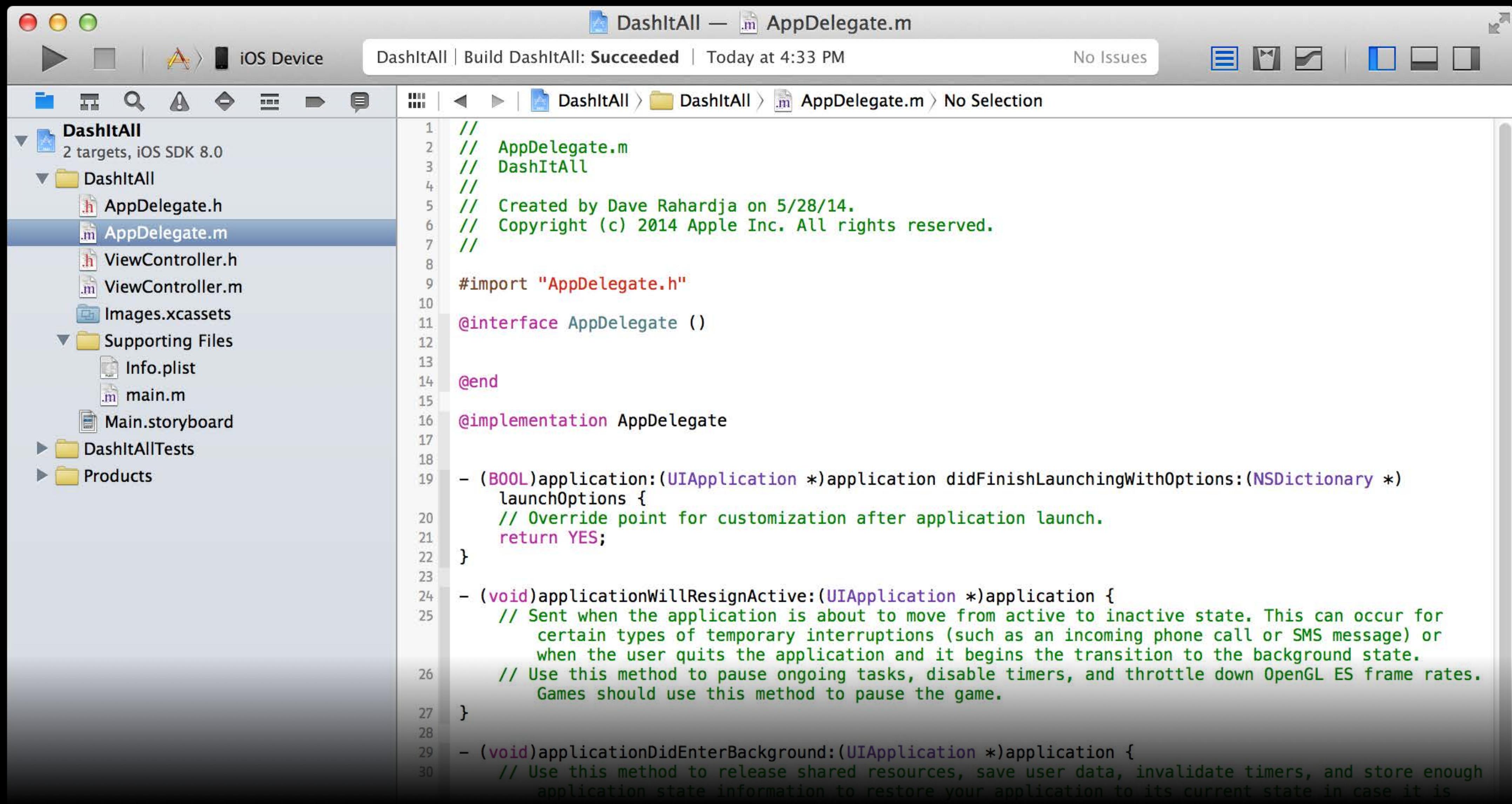
Continuous Integration

Run Unit Tests on connected devices

Reports

Archives

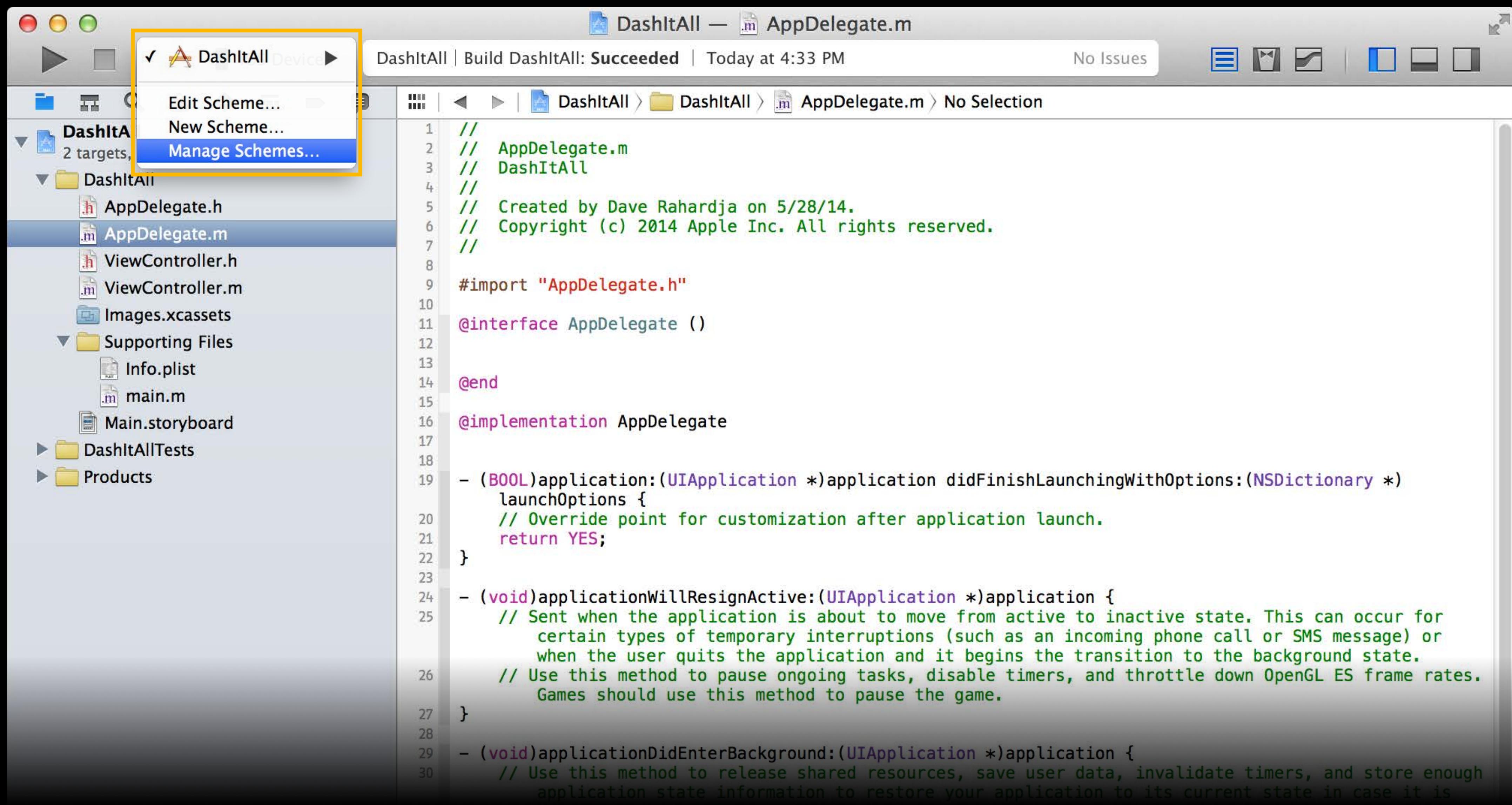
Create Shared Scheme



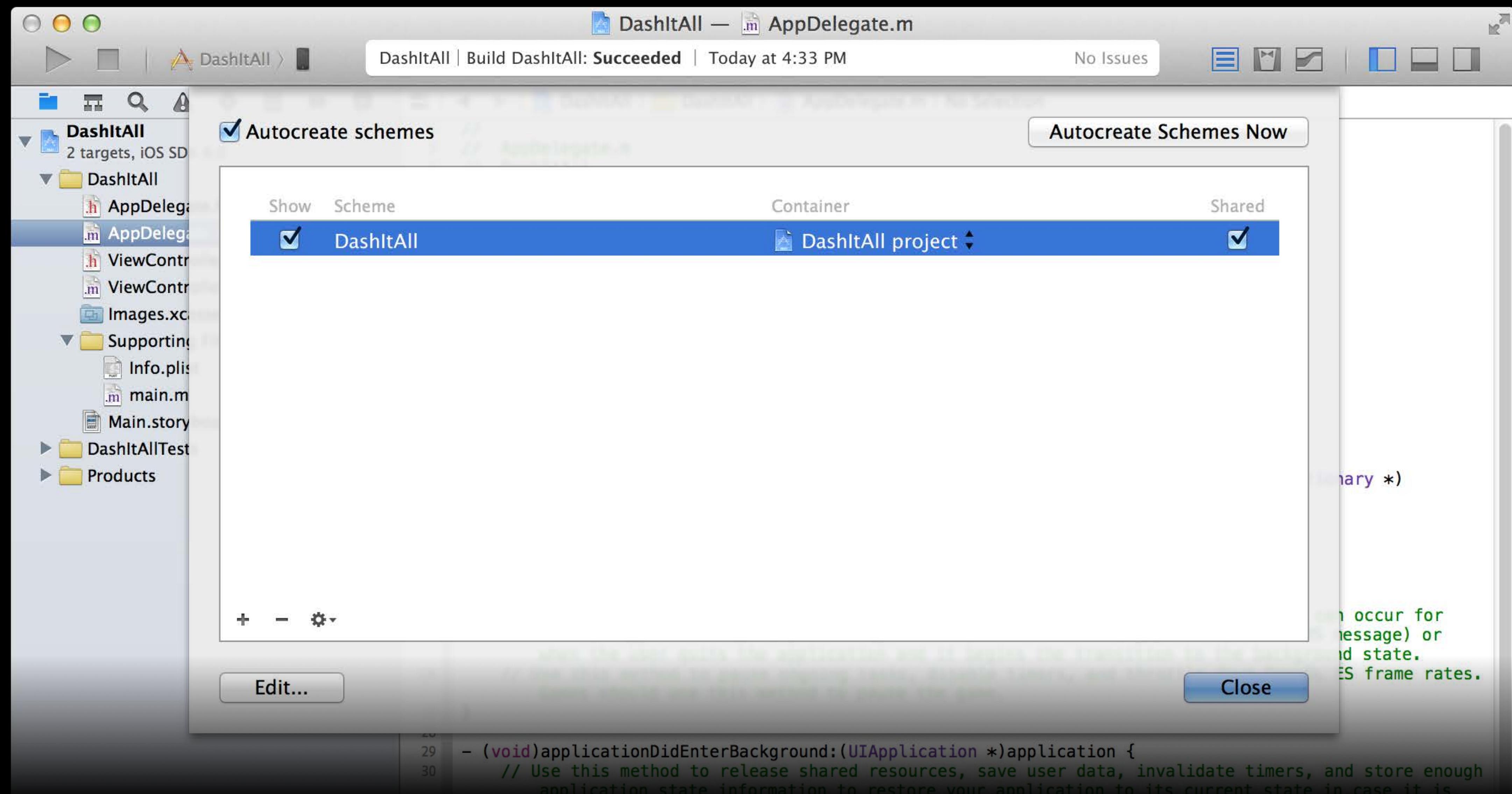
The screenshot shows the Xcode interface with the following details:

- Title Bar:** DashItAll — AppDelegate.m
- Status Bar:** DashItAll | Build DashItAll: Succeeded | Today at 4:33 PM | No Issues
- Toolbar:** Standard Xcode toolbar with icons for play, stop, search, and file operations.
- Project Navigator:** Shows the project structure:
 - DashItAll (2 targets, iOS SDK 8.0)
 - DashItAll (containing:
 - AppDelegate.h
 - AppDelegate.m (selected)
 - ViewController.h
 - ViewController.m
 - Images.xcassets
 - Supporting Files (containing:
 - Info.plist
 - main.m
 - Main.storyboard
 - DashItAllTests
 - Products
- Editor Area:** Displays the code for AppDelegate.m. The code includes comments about its creation by Dave Rahardja on 5/28/14, copyright notice, and standard application delegate methods like `application:didFinishLaunchingWithOptions:`, `applicationWillResignActive:`, and `applicationDidEnterBackground:`.

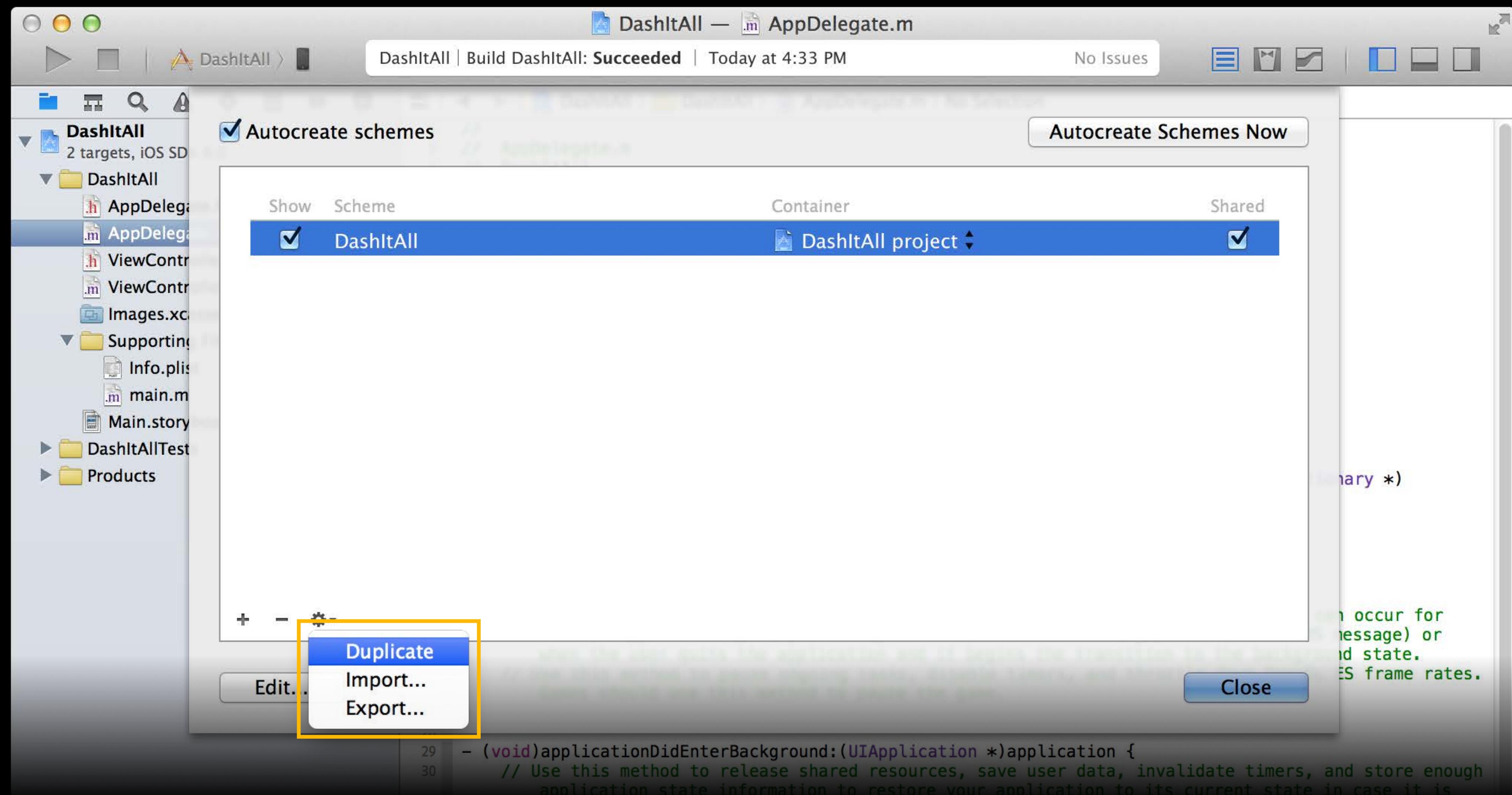
Create Shared Scheme



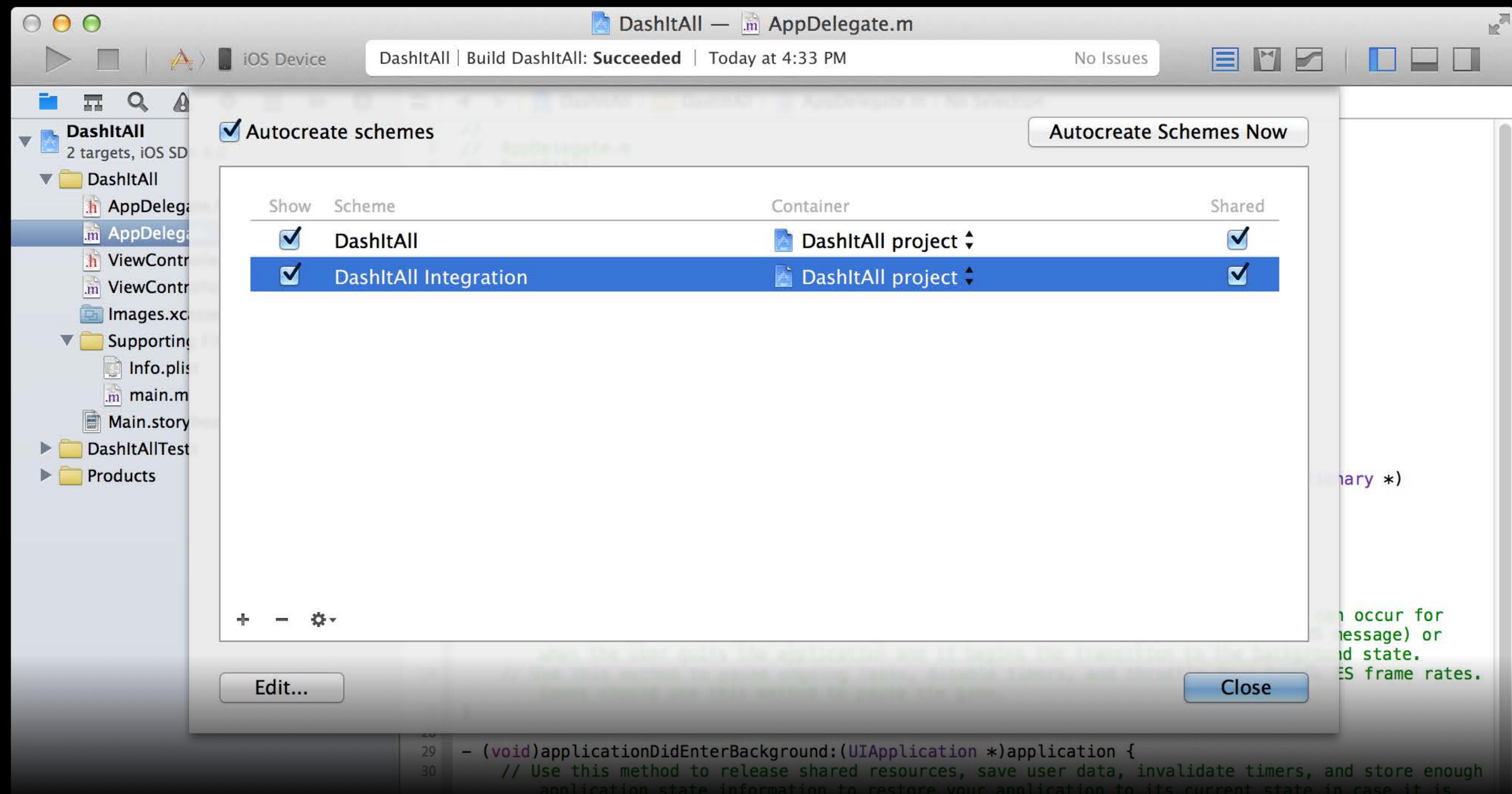
Create Shared Scheme



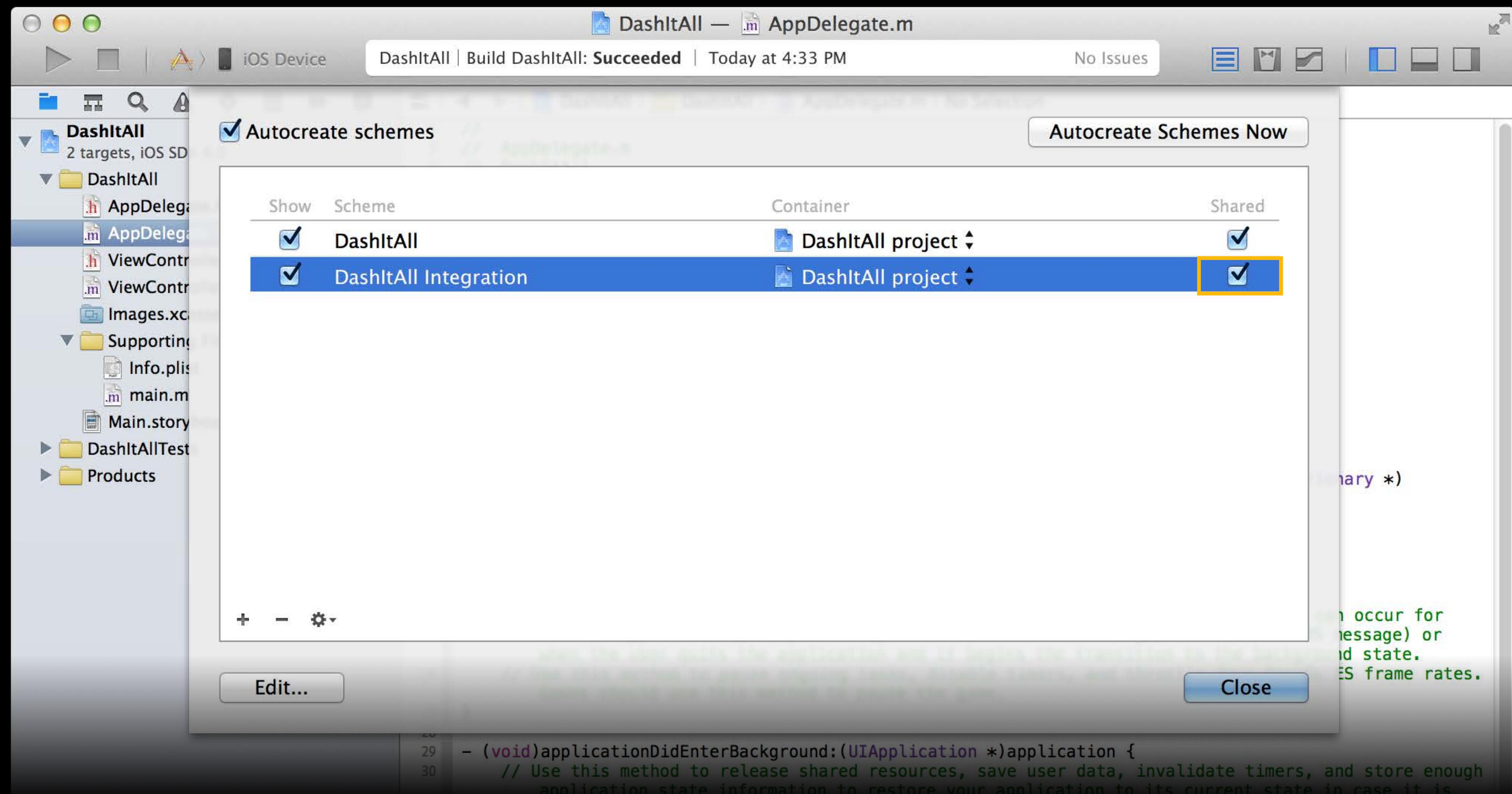
Create Shared Scheme



Create Shared Scheme

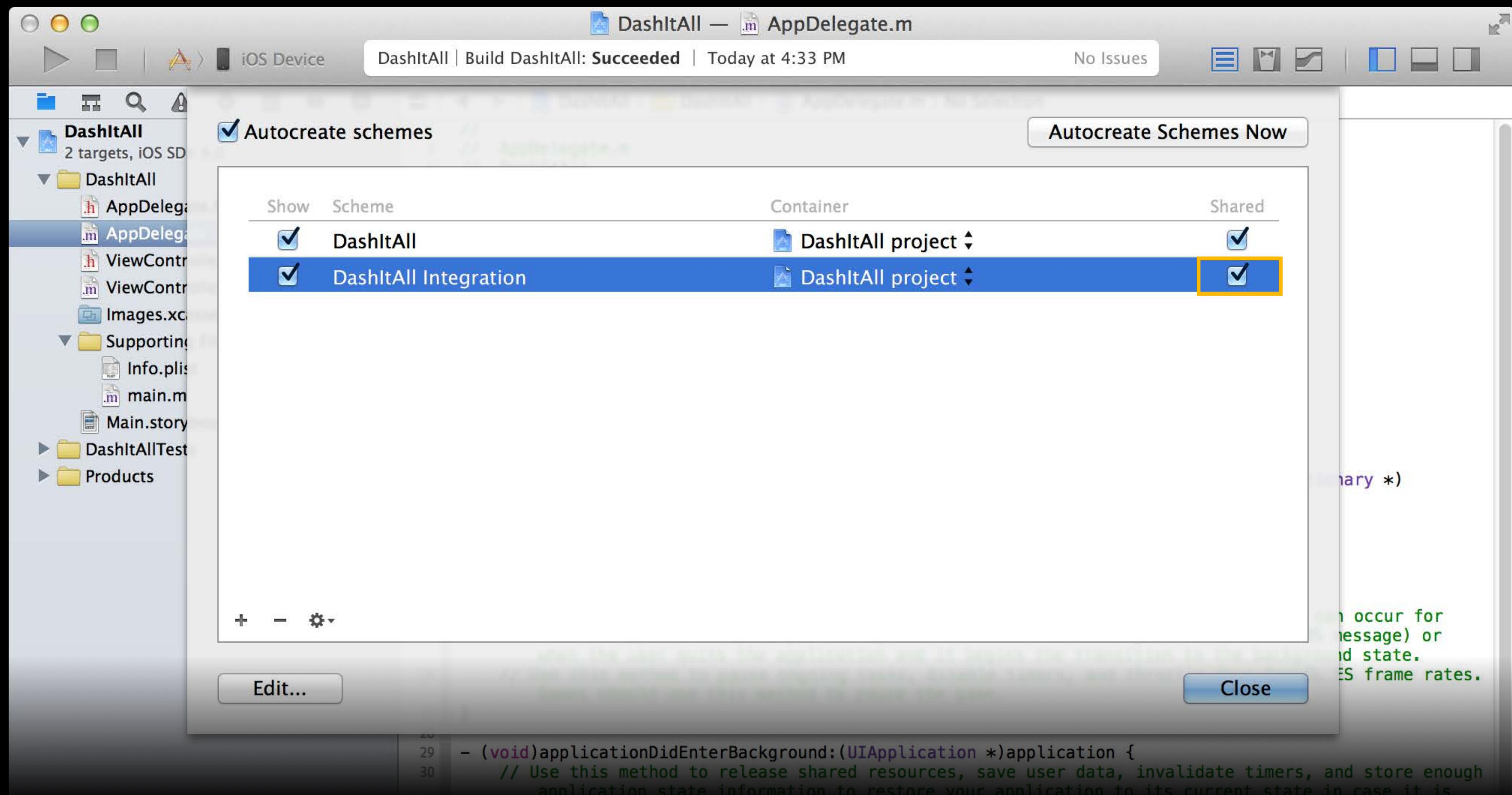


Create Shared Scheme



Create Shared Scheme

Remember to commit the scheme to the server



Connect Test Devices

The screenshot shows the Xcode service configuration in the OS X Server application. The sidebar on the left lists various services: SERVER (indah, Bindi, Alerts, Certificates, Logs, Stats), ACCOUNTS (Users, Groups), and SERVICES (Caching, Calendar, Contacts, File Sharing, Mail, Messages, Profile Manager, Time Machine, VPN, Websites, Wiki). The Xcode service is selected, indicated by a blue bar at the bottom of the sidebar.

Xcode Service Configuration

Access

Status: Available on your local network at `indah.local`
Learn about configuring devices for this service [+](#)

Permissions: Logged in users can create bots, anyone can view bots [Edit...](#)

Builds

Perform builds using: Xcode 6.0 (6A179o) [Choose...](#)

Developer Teams: Apple Inc. - Business Markets Enterprise [Edit...](#)

Devices

bluesy iPhone 5c (Model A1507, A1516, A1526, A1529) / 8.0	Add to Team
iPod touch iPod touch (5th generation) / 8.0	Apple Inc. - Business Markets Enter...

Connect Test Devices

The screenshot shows the Xcode service configuration in the OS X Server application. The sidebar on the left lists various services: SERVER (indah, Bindi, Alerts, Certificates, Logs, Stats), ACCOUNTS (Users, Groups), and SERVICES (Caching, Calendar, Contacts, File Sharing, Mail, Messages, Profile Manager, Time Machine, VPN, Websites, Wiki). The Xcode service is selected in the bottom-left corner.

Xcode Service Configuration

Access

Status: Available on your local network at `indah.local`
Learn about configuring devices for this service [+](#)

Permissions: Logged in users can create bots, anyone can view bots [Edit...](#)

Builds

Perform builds using: Xcode 6.0 (6A179o) [Choose...](#)

Developer Teams: Apple Inc. - Business Markets Enterprise [Edit...](#)

Devices

bluesy iPhone 5c (Model A1507, A1516, A1526, A1529) / 8.0	Add to Team
iPod touch iPod touch (5th generation) / 8.0	Apple Inc. - Business Markets Enter...

Connect Test Devices

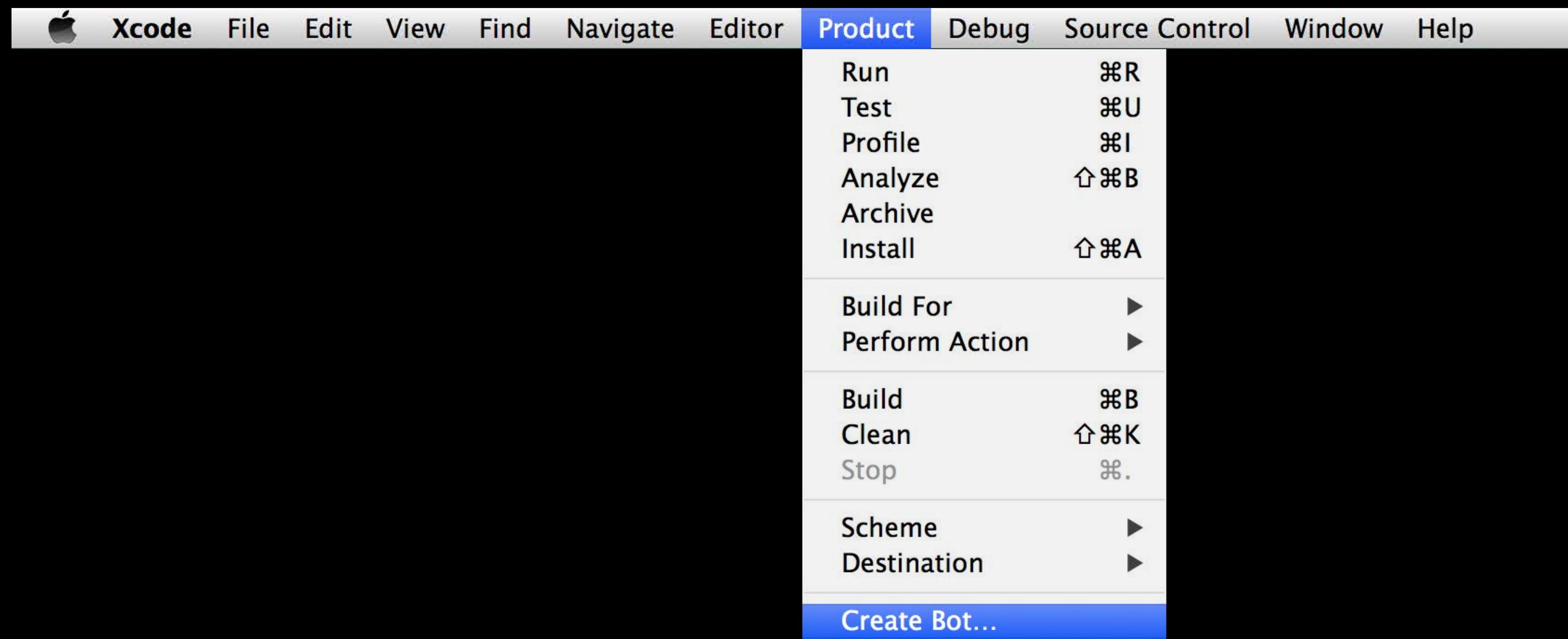
Used for Unit Test

Connect a variety of devices

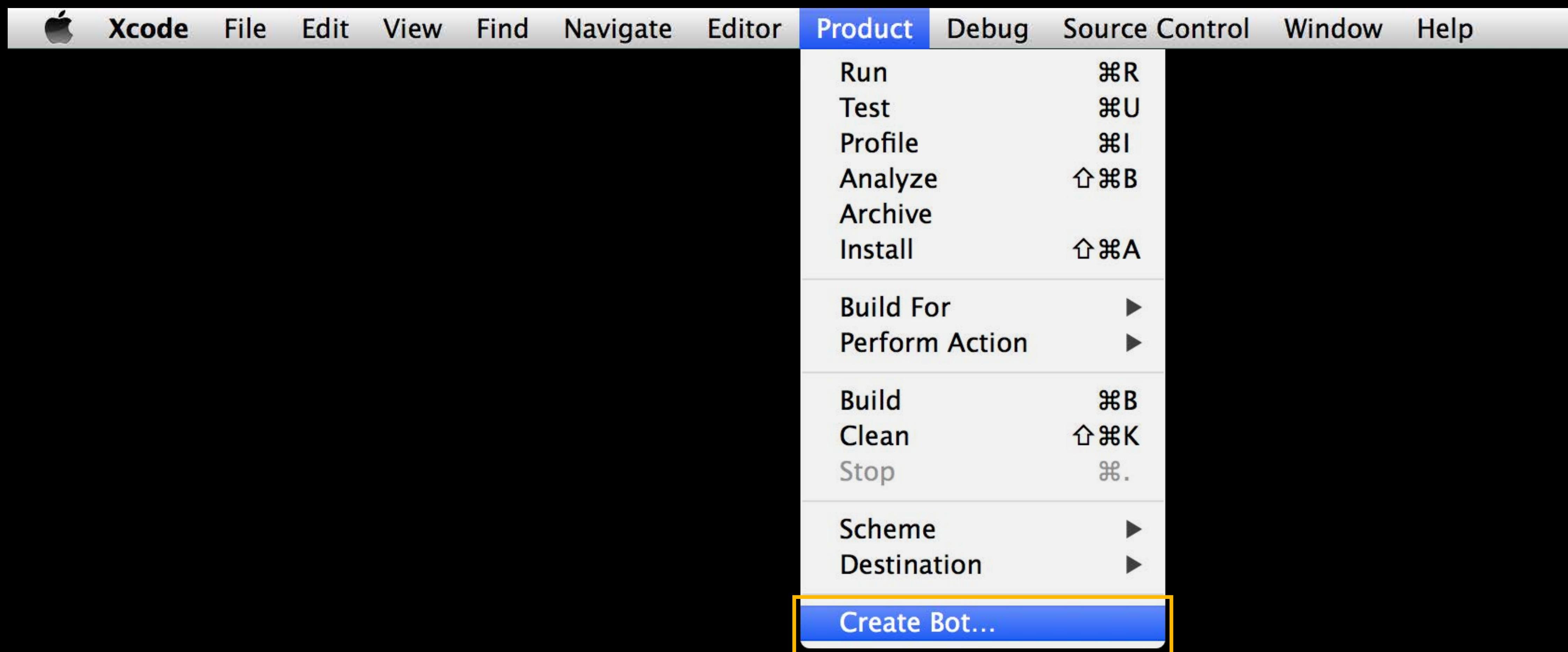
- iPad
- iPod touch
- iPhone

Development Provisioning Profile automatically updated

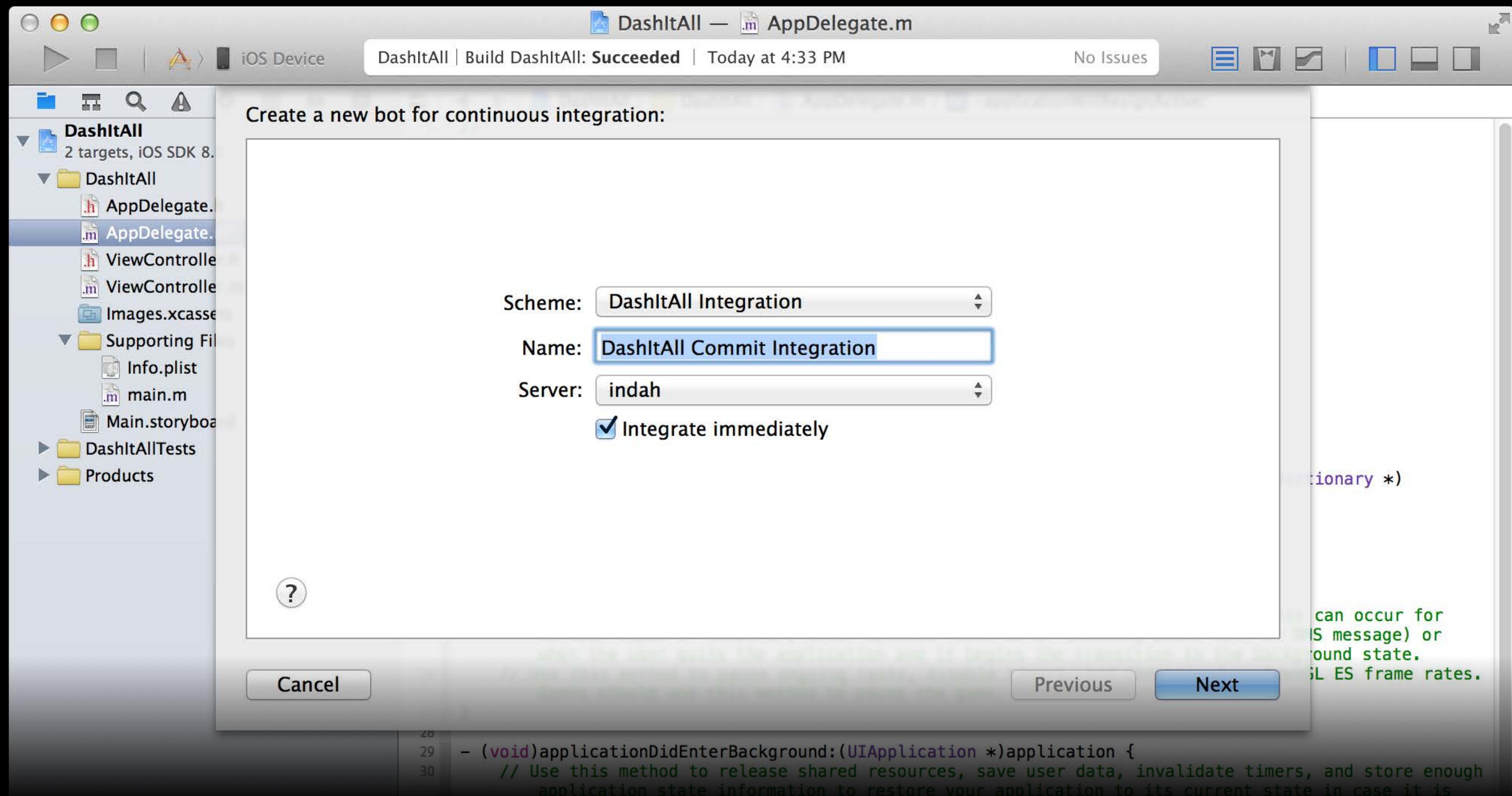
Create the Bot



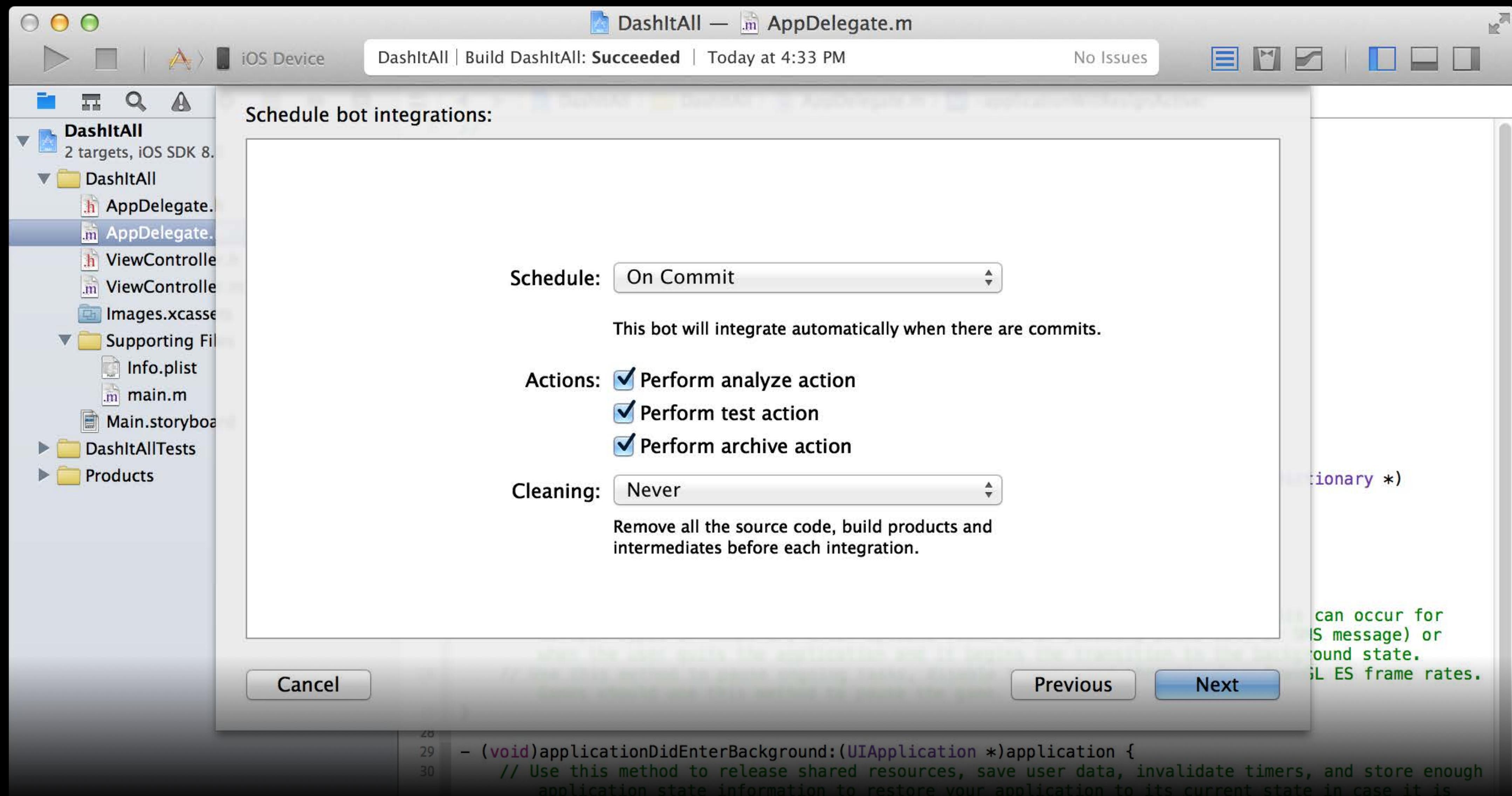
Create the Bot



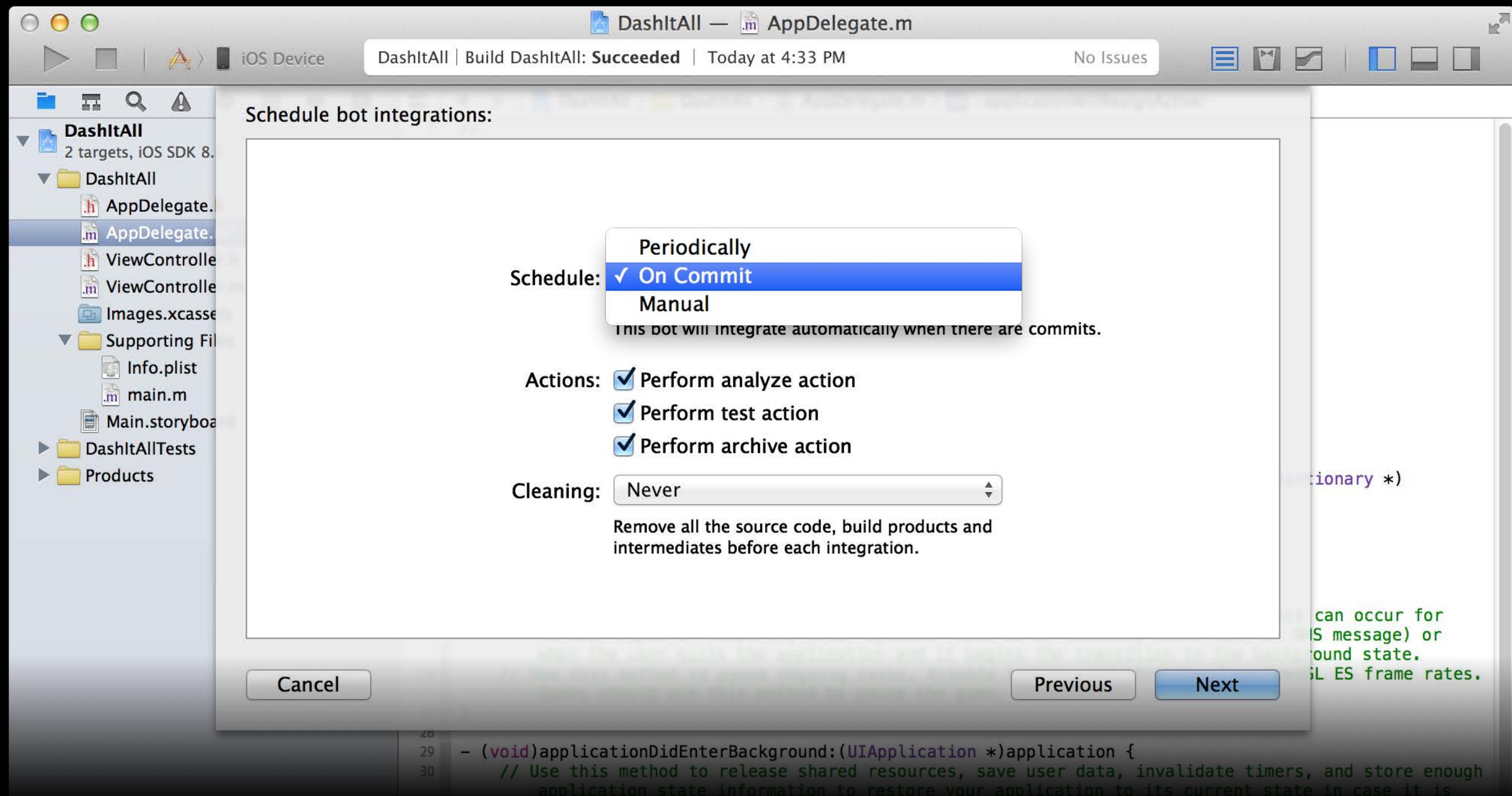
Create the Bot



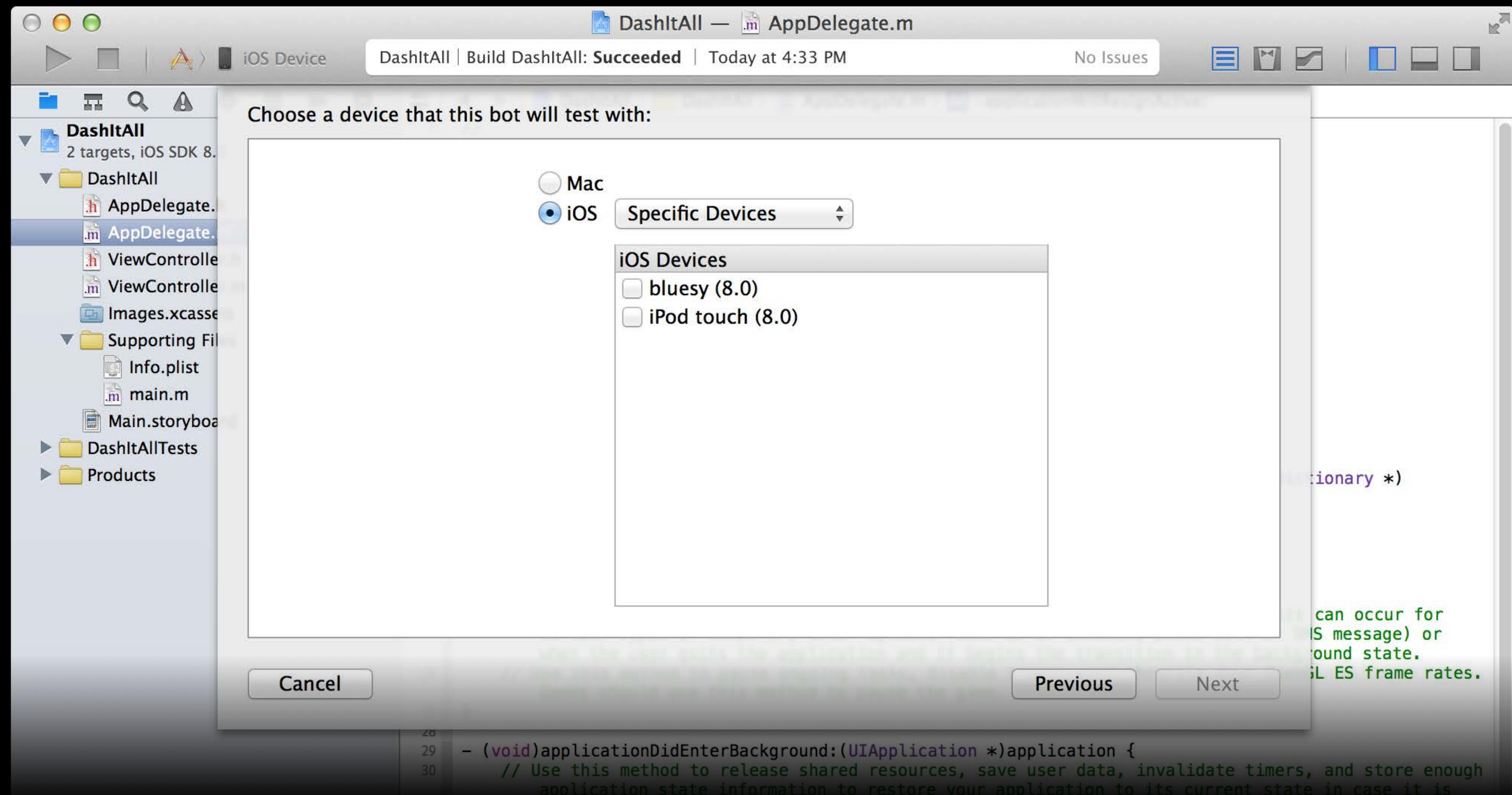
Create the Bot



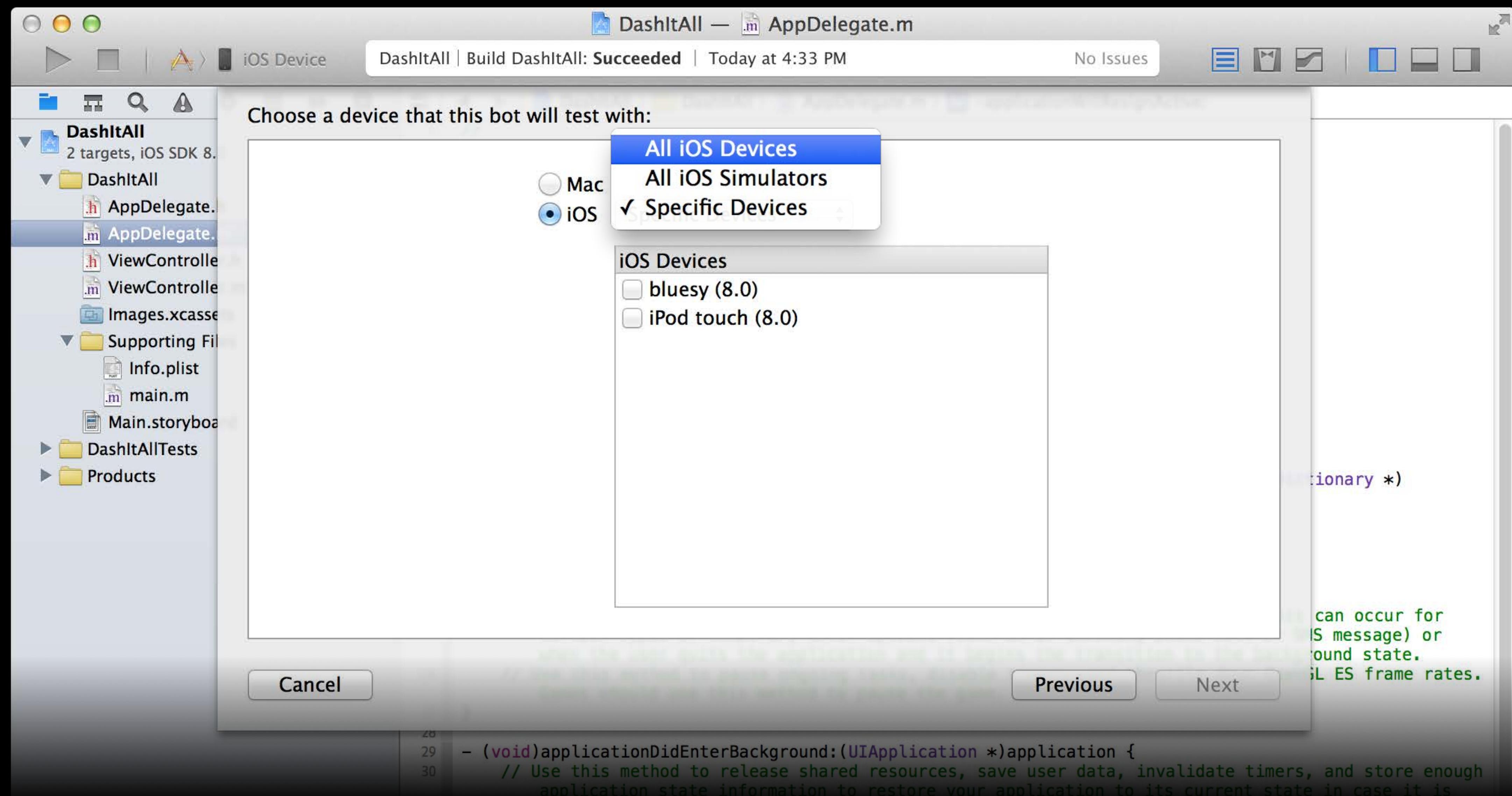
Create the Bot



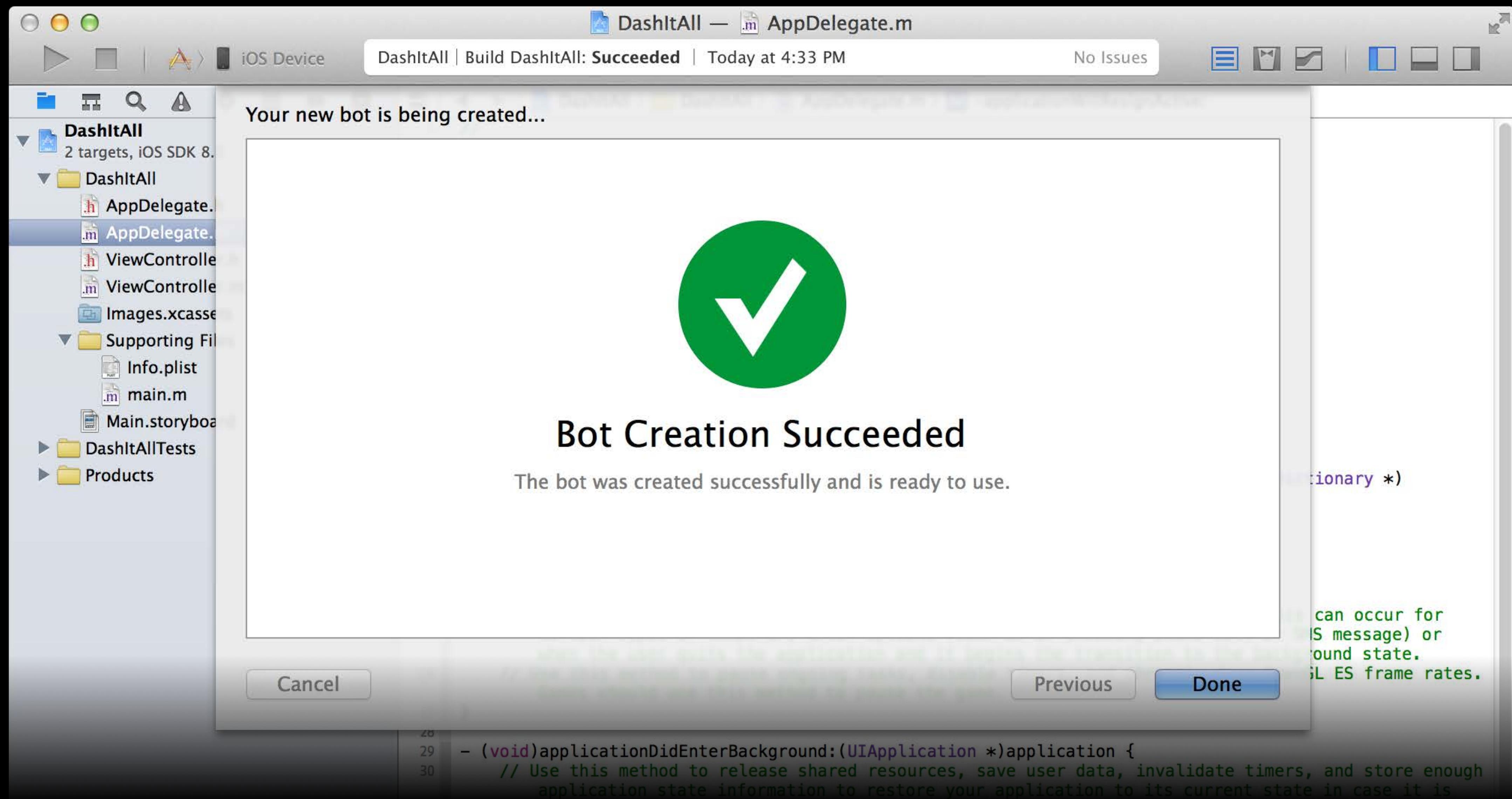
Create the Bot



Create the Bot



Create the Bot



View Bot Reports

Calc.xcworkspace

Build iOS_Calc: Succeeded | Yesterday at 14:03

iOS_Calc-commit

Summary Tests

iOS_Calc-commit

Integrate Now ⌂ ⌂ ⌂ ⌂

By Group By Time

Workspace Yesterday, 21:12

iOS_Calc-commit Archimedes

Integrate (29) Yesterday, 21:12

Integrate (28) Yesterday, 21:07

Integrate (27) Yesterday, 20:57

Integrate (26) Yesterday, 20:47

Integrate (25) Yesterday, 20:44

Integrate (24) Yesterday, 20:41

Integrate (23) Yesterday, 20:41, Failed

Integrate (22) Yesterday, 15:20

Integrate (21) Yesterday, 13:21

Integrate (20) Yesterday, 13:12

Integrate (19) Yesterday, 08:26

Integrate (18) Yesterday, 08:16

Integrate (17) Yesterday, 08:06

Integrate (16)

Integration Results

Succeeded

Start: 2014-06-05, 21:12

Duration: 28 seconds

1 commit by ernest@example...

0 Errors 0 Warnings 0 Analysis 14 Tests Passed

Build History

Integration 5 Results 2014-06-04, 18:06

2 Tests Failed 4 Tests Succeeded

Integration Test Results

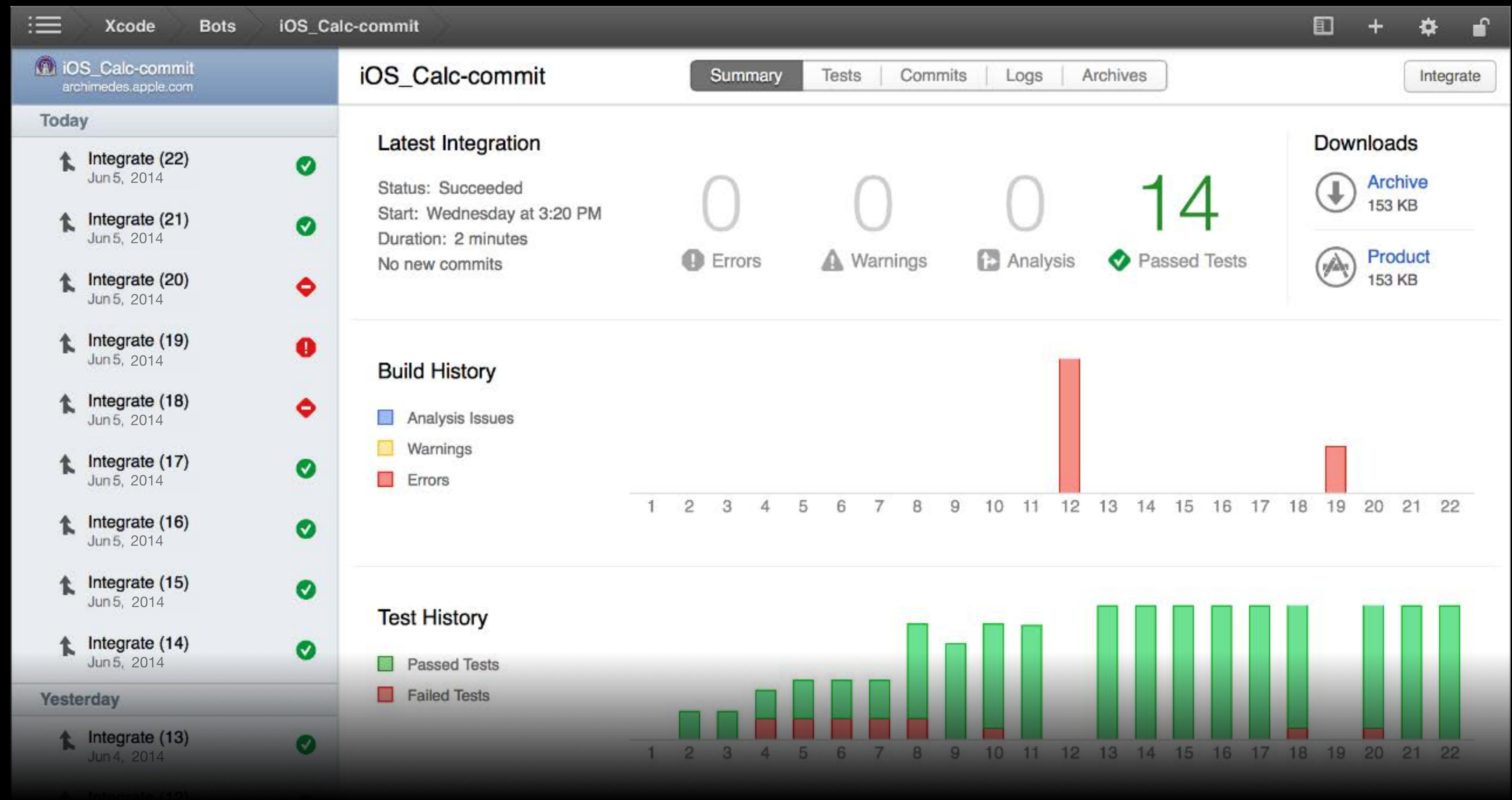
Test History

Failure Success

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

View Bot Report

<https://servername/xcode/bots>



Bot Output

Test results

Static analysis

Logs

Xcode project archives

Ad-Hoc signed products

Great for QA

Summary

Hub for development

Install OS X server and Xcode

Sign in with Enterprise account

Host code repository

Connect to test devices

Bots for continuous integration

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Distribution Provisioning Profile

The screenshot shows the "Add – iOS Provisioning Profiles – Apple Developer" page. The URL is developer.apple.com/account/ios/profile/profileCreate.action?formID=56556307. The left sidebar shows navigation options: iOS Apps, Certificates (selected), Identifiers, Devices, and Provisioning Profiles (selected). The main area is titled "Add iOS Provisioning Profile" and has four steps: Select Type, Configure, Generate, and Download. The "Select Type" step is active, showing a gear icon and the question "What type of provisioning profile do you need?". It lists two options: "Development" (selected) and "Distribution". Under "Development", it says "iOS App Development: Create a provisioning profile to install development apps on test devices." Under "Distribution", it says "In House: To sign iOS apps for In House Distribution, you need a Certificate." and "Ad Hoc: Create a distribution provisioning profile to install your app on a limited number of registered devices." At the bottom are "Cancel" and "Continue" buttons.

Distribution Provisioning Profile

The screenshot shows the "Add – iOS Provisioning Profiles – Apple Developer" page. The left sidebar is titled "Certificates, Identifiers & Profiles" and has a dropdown set to "iOS Apps". Under "Provisioning Profiles", the "Distribution" option is highlighted with a yellow box.

The main area is titled "Add iOS Provisioning Profile" and shows a progress bar: "Select Type" (highlighted), "Configure", "Generate", and "Download".

What type of provisioning profile do you need?

Development

iOS App Development
Create a provisioning profile to install development apps on test devices.

Distribution

In House
To sign iOS apps for In House Distribution, you need a Certificate.

Ad Hoc
Create a distribution provisioning profile to install your app on a limited number of registered devices.

At the bottom are "Cancel" and "Continue" buttons.

Distribution Provisioning Profile

The screenshot shows the "Add – iOS Provisioning Profiles – Apple Developer" page. The left sidebar is titled "Certificates, Identifiers & Profiles" and has a dropdown set to "iOS Apps". Under "Provisioning Profiles", the "Distribution" option is highlighted with a yellow box. The main content area is titled "Add iOS Provisioning Profile" and shows a progress bar: "Select Type" (highlighted), "Configure", "Generate", and "Download". A sub-section titled "What type of provisioning profile do you need?" shows two options: "Development" (selected) and "Distribution". The "Distribution" section is also highlighted with a yellow box and contains two options: "In House" (selected) and "Ad Hoc". The "In House" option includes a note: "To sign iOS apps for In House Distribution, you need a Certificate."

Add – iOS Provisioning Profiles – Apple Developer
developer.apple.com/account/ios/profile/profileCreate.action?formID=56556307

Developer

Certificates, Identifiers & Profiles

iOS Apps

Certificates

- All
- Pending
- Development
- Production

Identifiers

- App IDs
- Pass Type IDs
- Website Push IDs

Devices

- All

Provisioning Profiles

- All
- Development
- Distribution**

Add iOS Provisioning Profile

Select Type → Configure → Generate → Download

What type of provisioning profile do you need?

Development

iOS App Development
Create a provisioning profile to install development apps on test devices.

Distribution

In House
To sign iOS apps for In House Distribution, you need a Certificate.

Ad Hoc
Create a distribution provisioning profile to install your app on a limited number of registered devices.

Cancel Continue

Distribution Provisioning Profile

Add – iOS Provisioning Profiles – Apple Developer
developer.apple.com/account/ios/profile/profileCreate.action?formID=69661689

Developer Technologies Resources Programs Support Member Center Search Developer Dave Rahardja ▾

Certificates, Identifiers & Profiles

iOS Apps Certificates Select Type Configure Generate Download

+

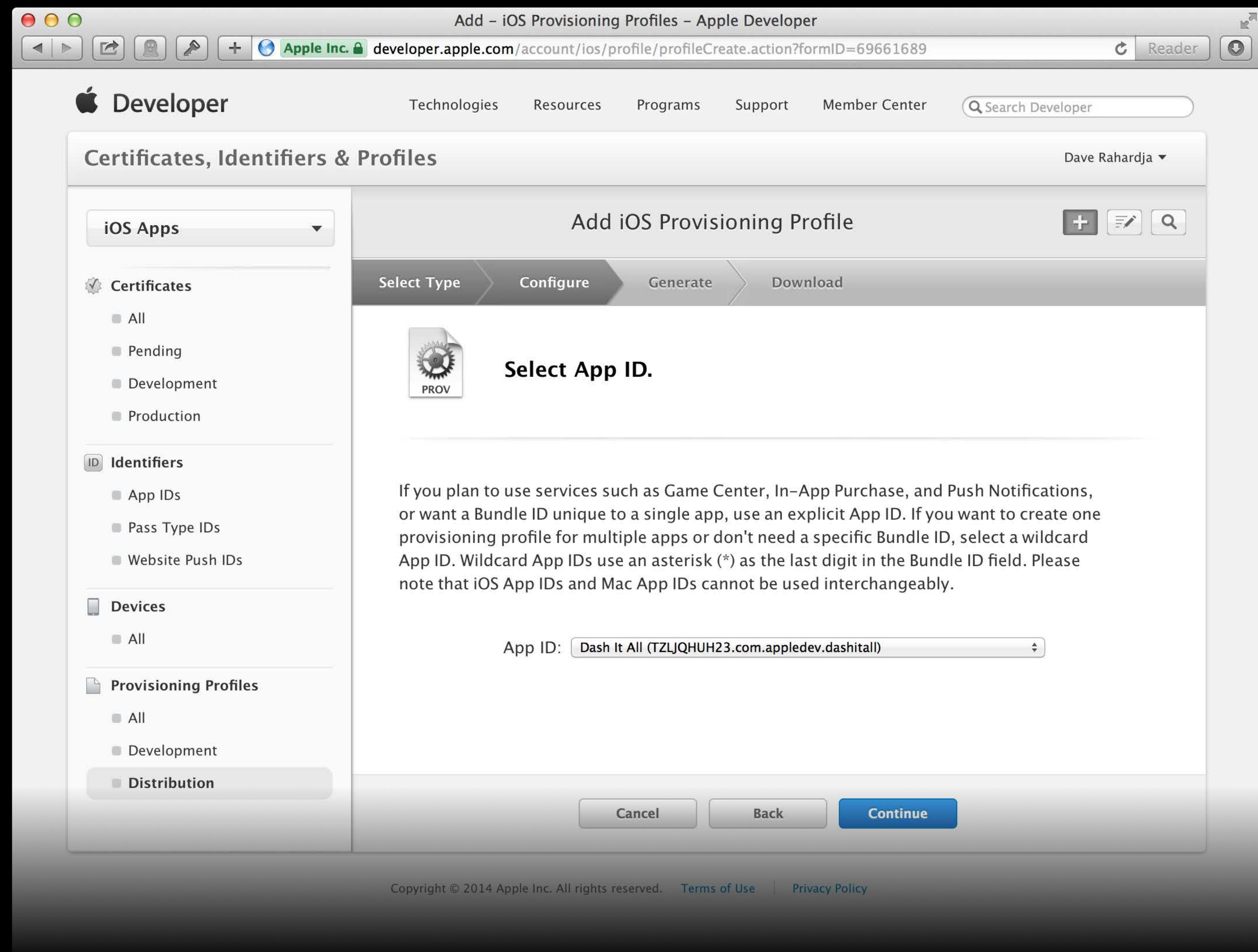
Select App ID.

If you plan to use services such as Game Center, In-App Purchase, and Push Notifications, or want a Bundle ID unique to a single app, use an explicit App ID. If you want to create one provisioning profile for multiple apps or don't need a specific Bundle ID, select a wildcard App ID. Wildcard App IDs use an asterisk (*) as the last digit in the Bundle ID field. Please note that iOS App IDs and Mac App IDs cannot be used interchangeably.

App ID: Dash It All (TZLJQHUh23.com.appledev.dashitall)

Cancel Back Continue

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Distribution Provisioning Profile

Add – iOS Provisioning Profiles – Apple Developer
developer.apple.com/account/ios/profile/profileCreate.action?formID=69661689

Developer Technologies Resources Programs Support Member Center Search Developer Dave Rahardja ▾

Certificates, Identifiers & Profiles

iOS Apps Certificates Select Type Configure Generate Download

Certificates All Pending Development Production

Identifiers App IDs Pass Type IDs Website Push IDs

Devices All

Provisioning Profiles All Development Distribution

Select App ID.

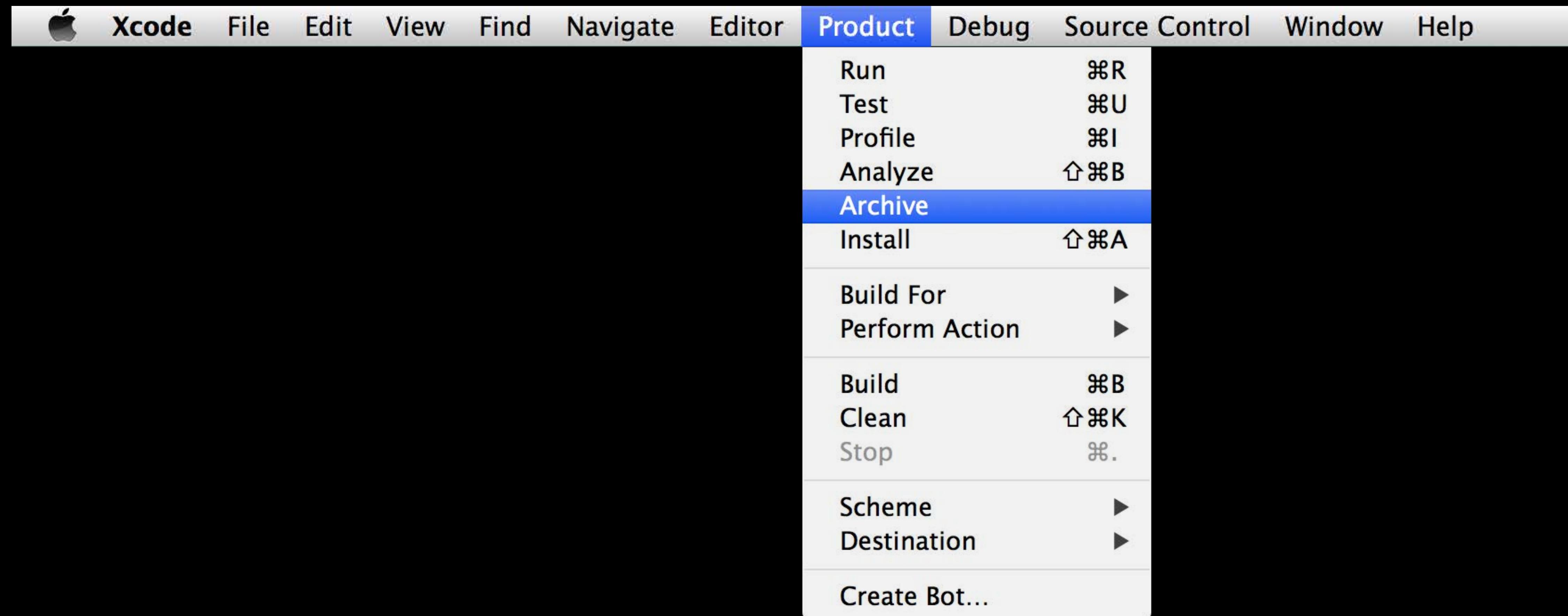
If you plan to use services such as Game Center, In-App Purchase, and Push Notifications, or want a Bundle ID unique to a single app, use an explicit App ID. If you want to create one provisioning profile for multiple apps or don't need a specific Bundle ID, select a wildcard App ID. Wildcard App IDs use an asterisk (*) as the last digit in the Bundle ID field. Please note that iOS App IDs and Mac App IDs cannot be used interchangeably.

App ID: Dash It All (TZLJQHUh23.com.appledev.dashitall)

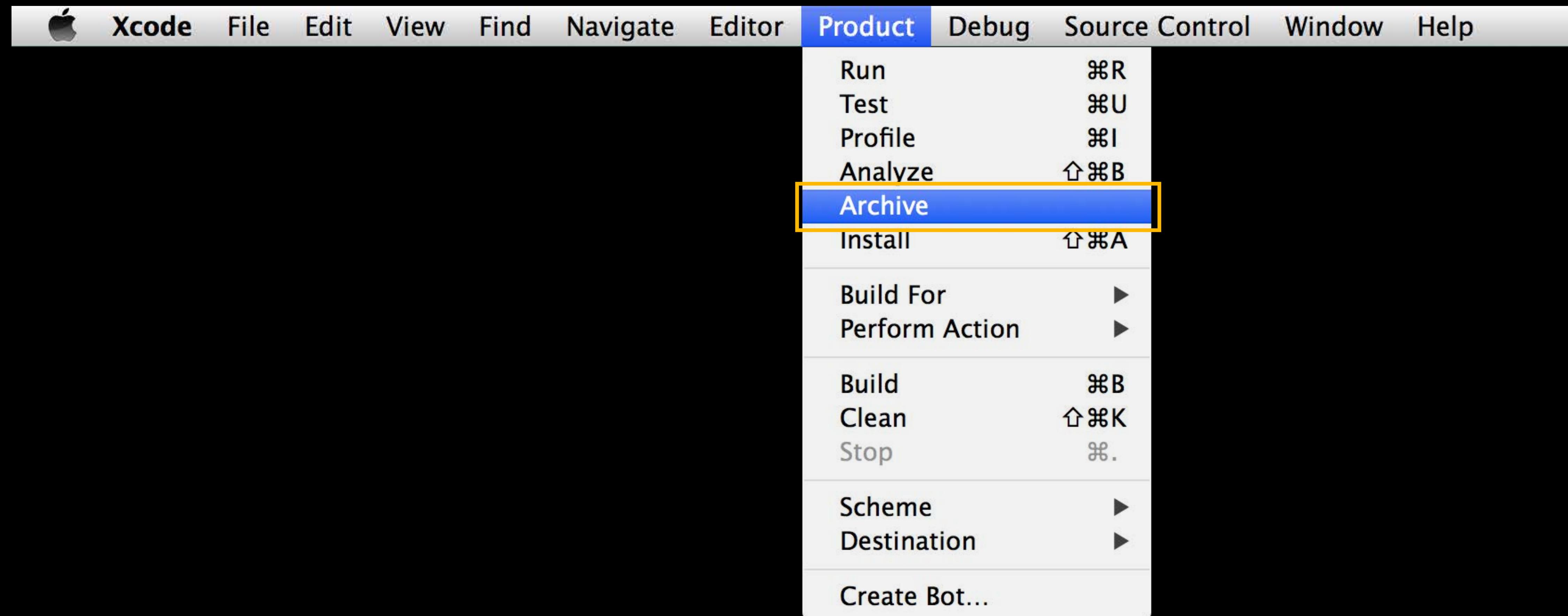
Cancel Back Continue

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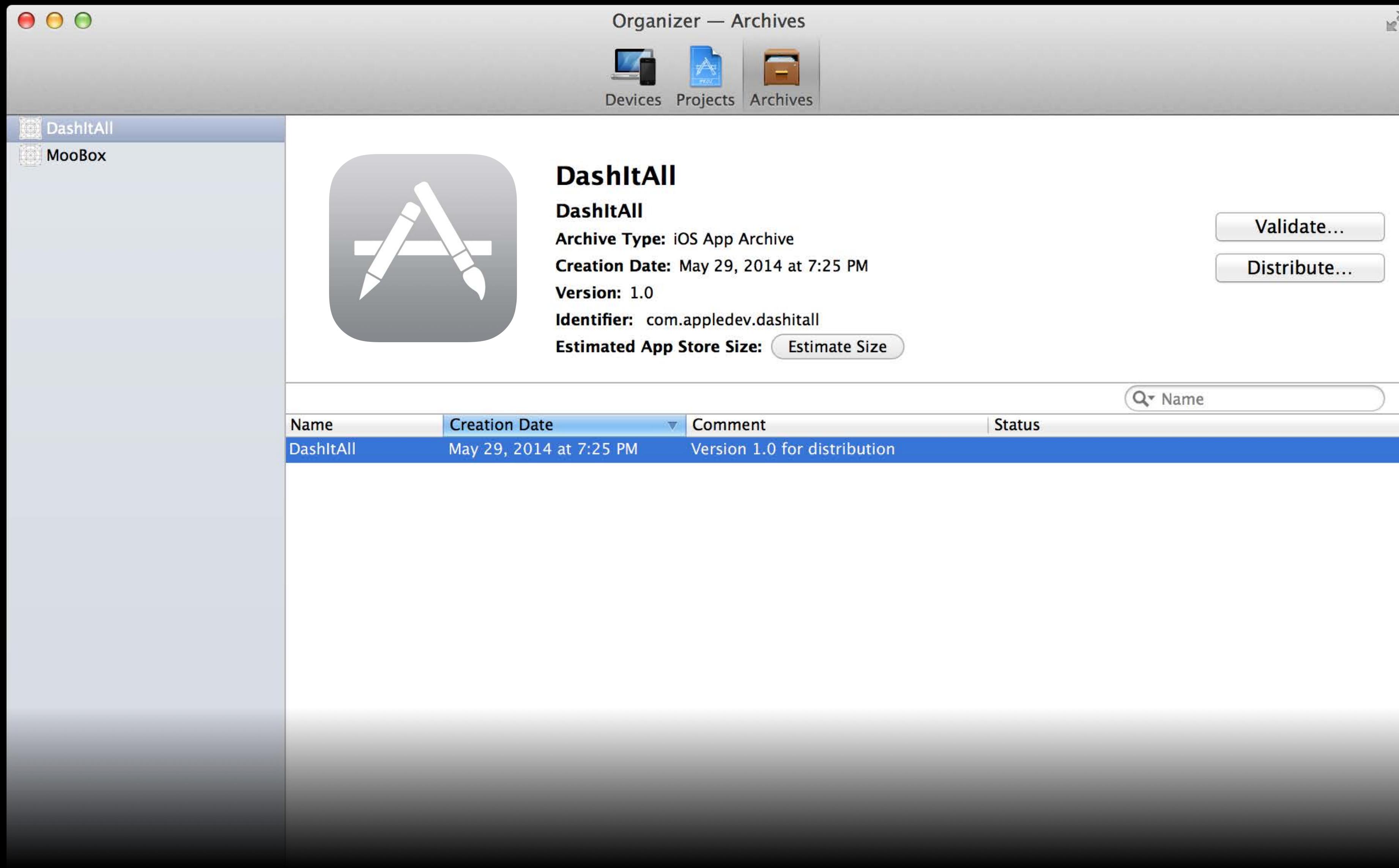
Packaging for Distribution



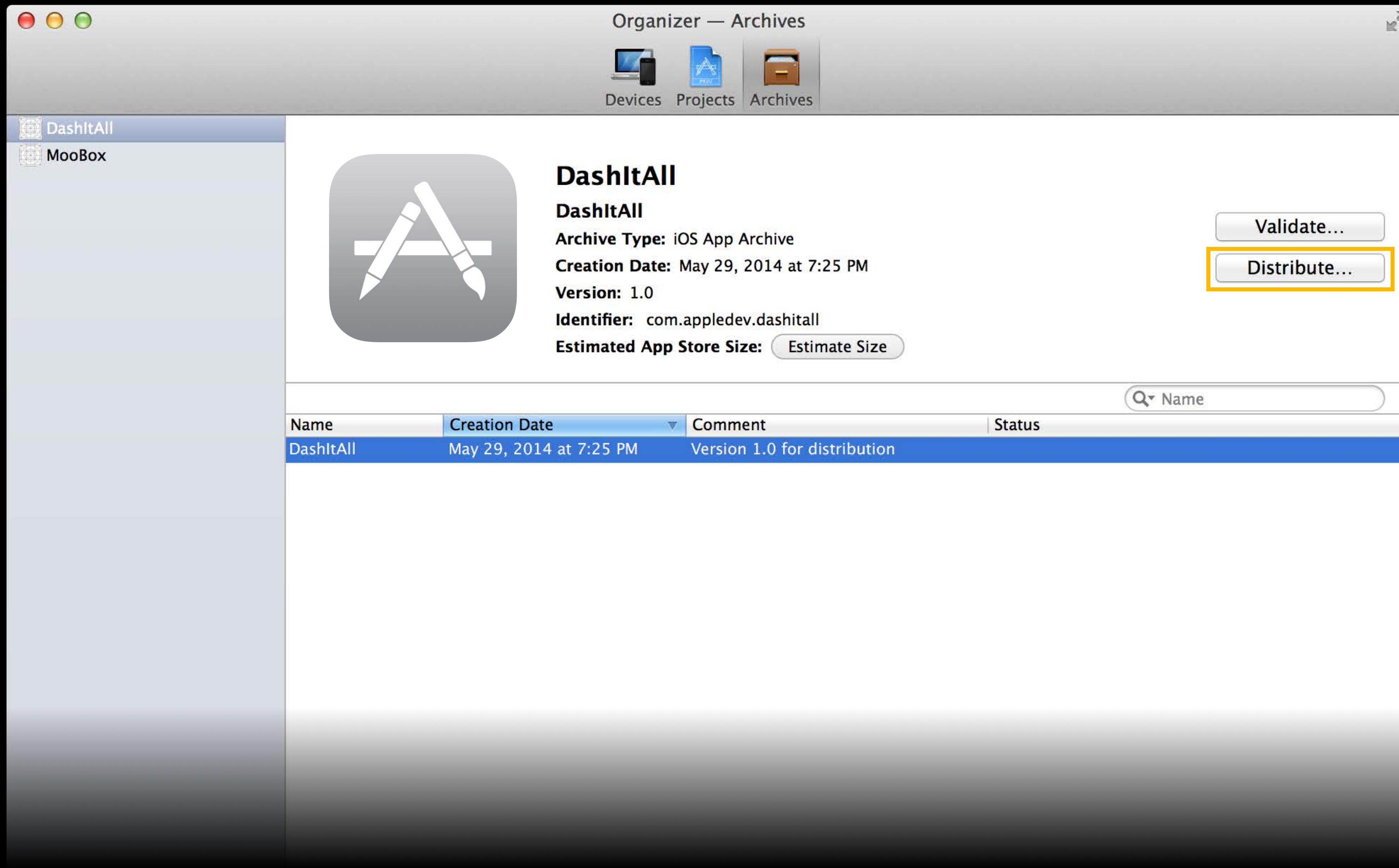
Packaging for Distribution



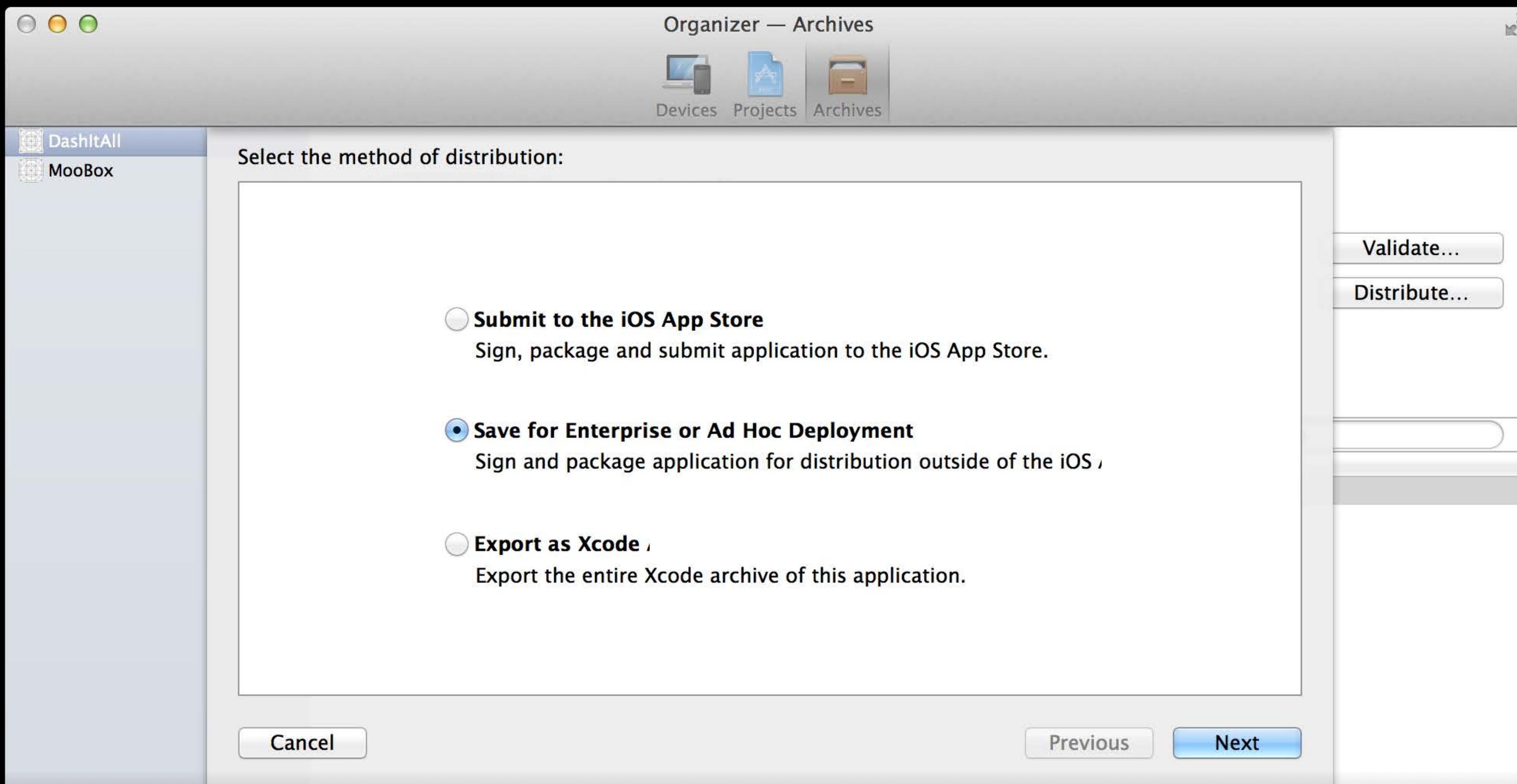
Packaging for Distribution



Packaging for Distribution



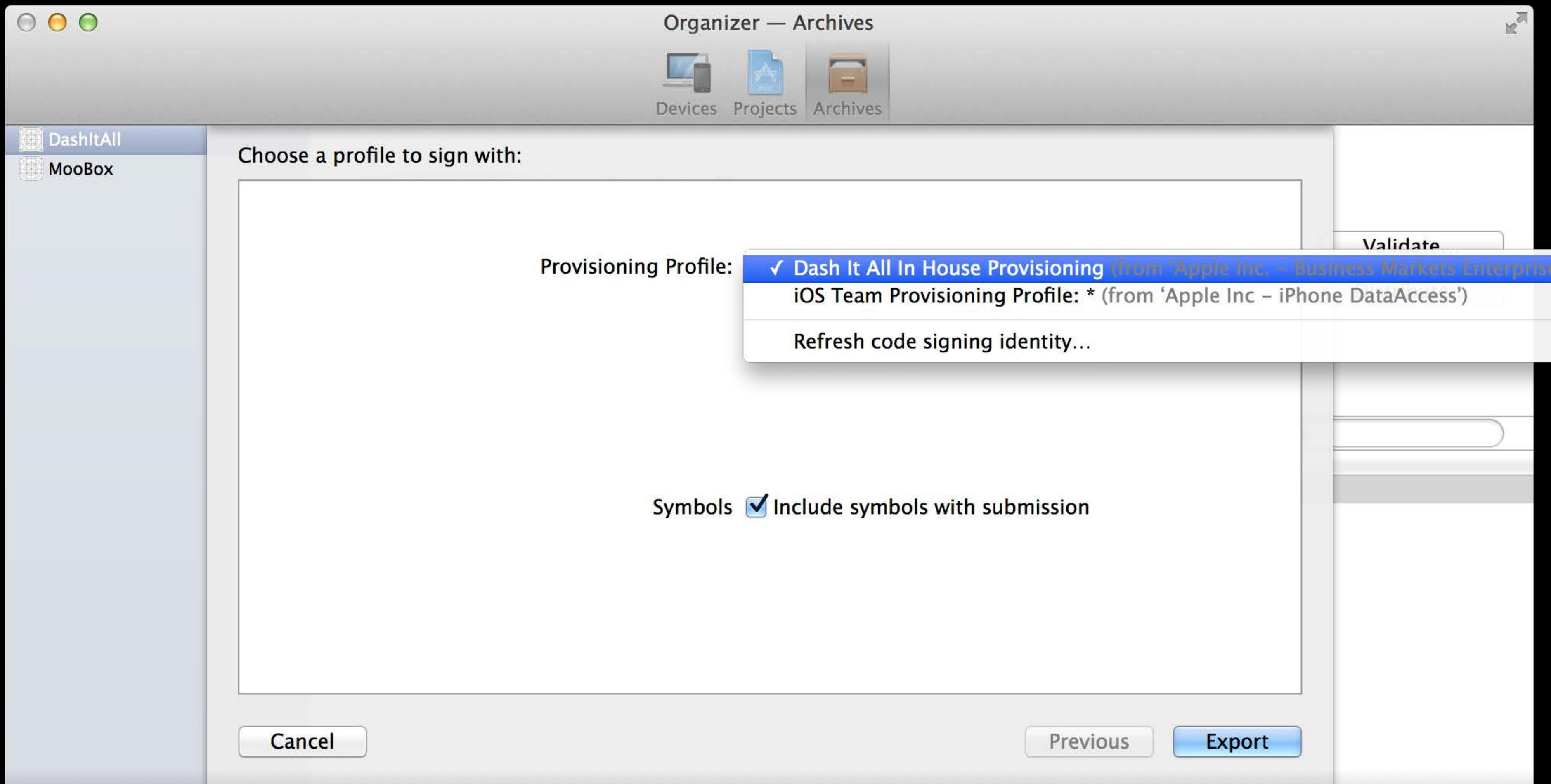
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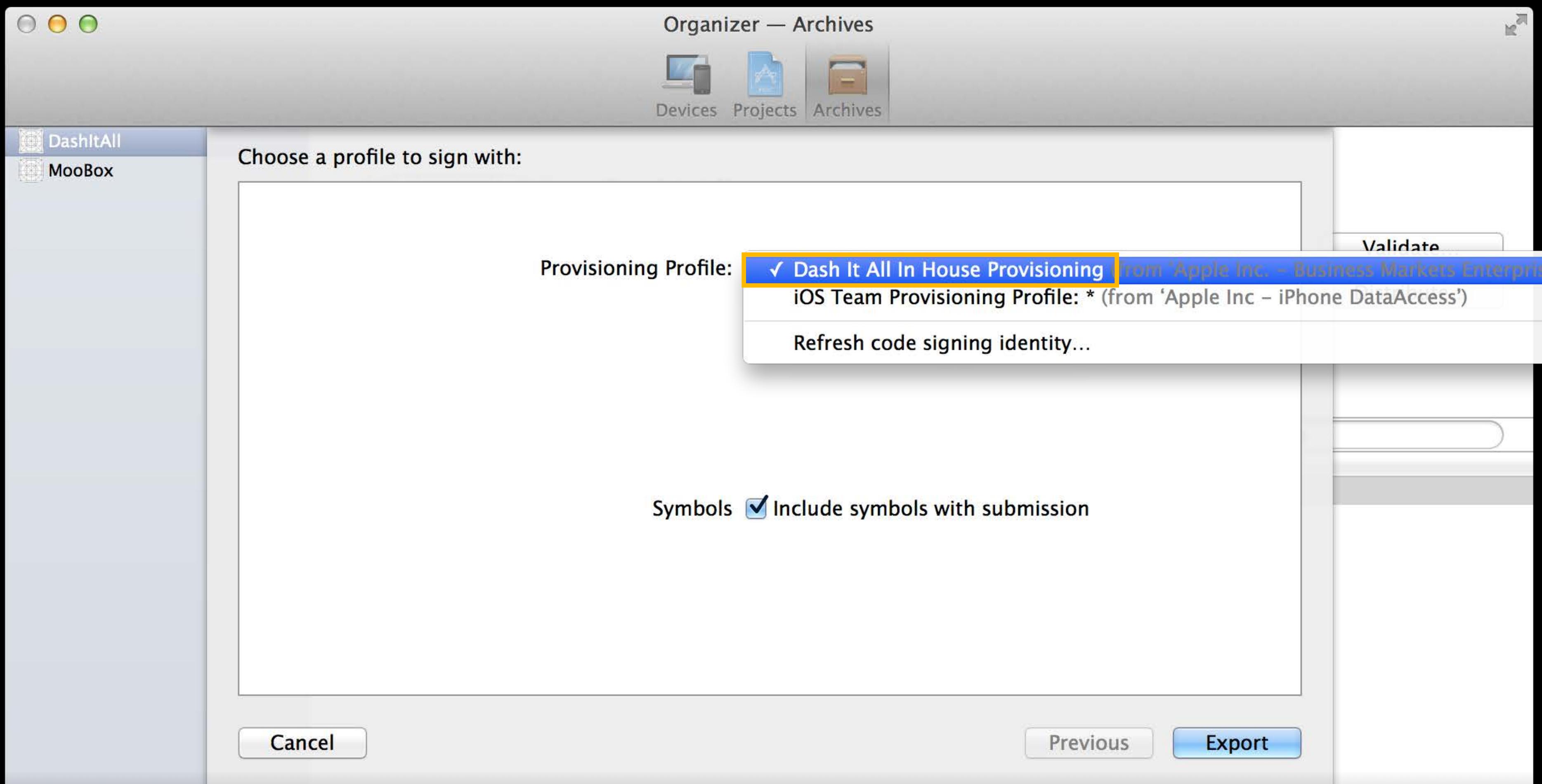
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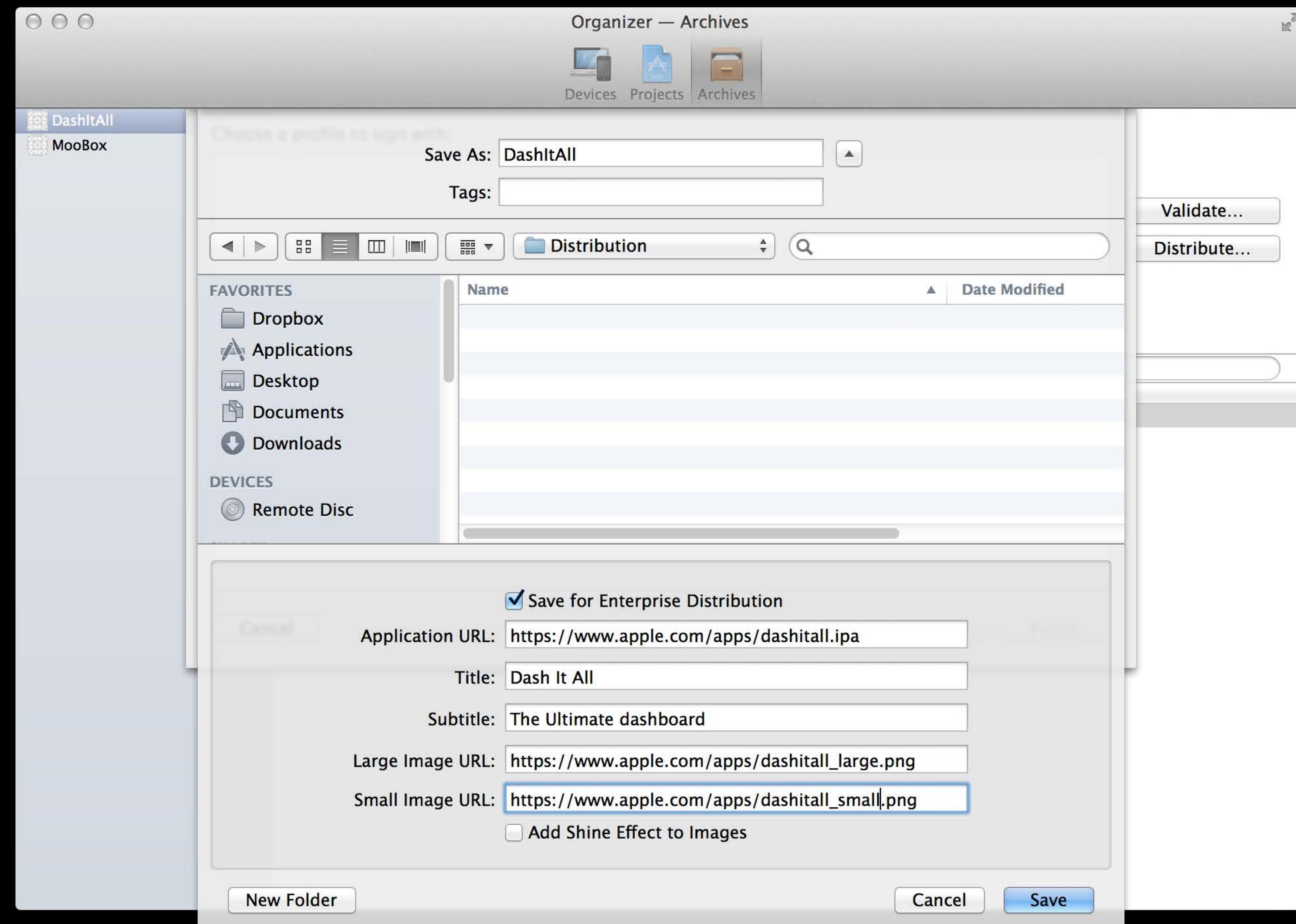
Packaging for Distribution



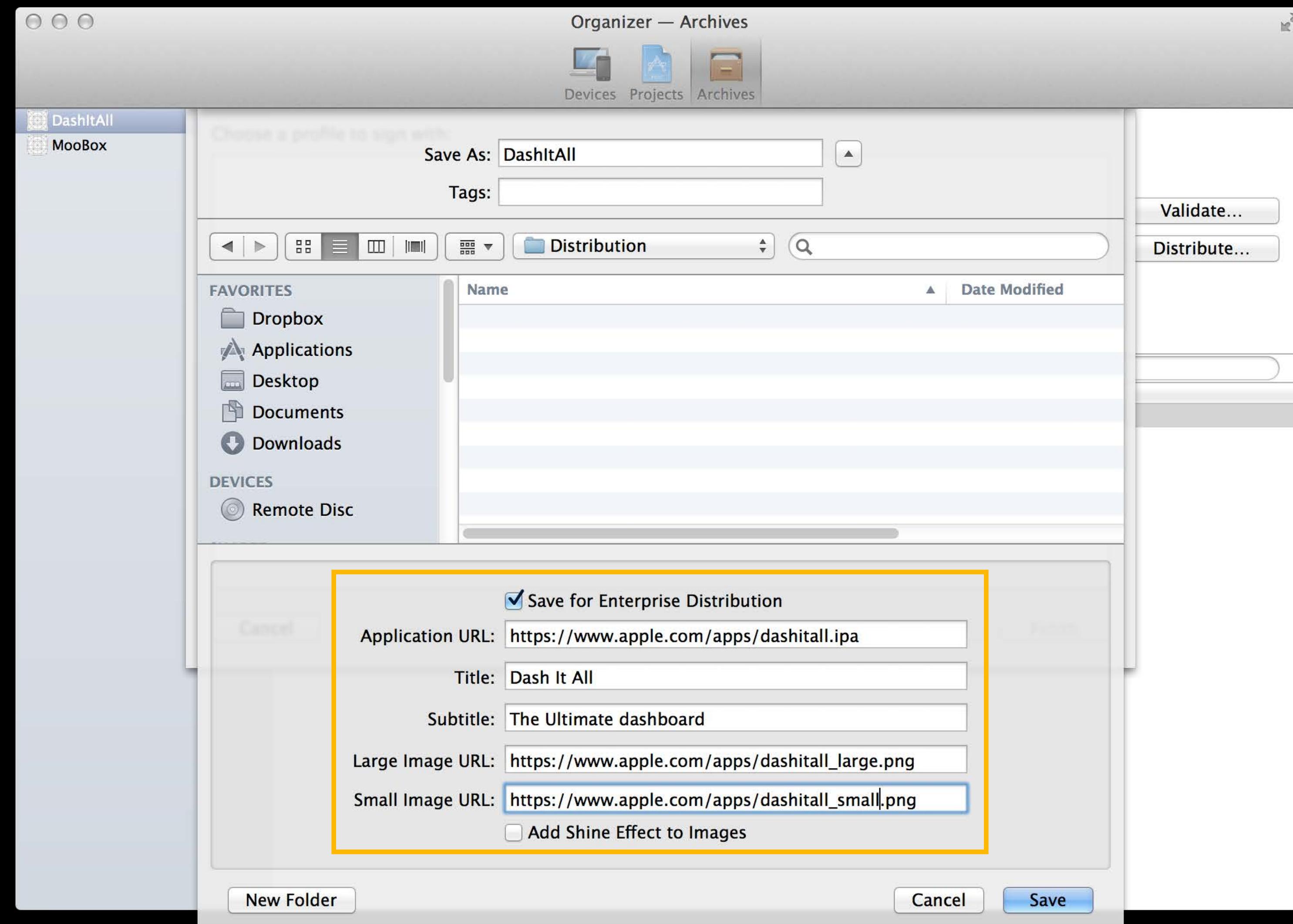
Packaging for Distribution



Packaging for Distribution



Packaging for Distribution



Code Signing and Provisioning Profiles

Code Signing and Provisioning Profiles

Code Signing Certificates

- Valid for **three** years
- Up to two valid certs at a time
- Update app binary to renew

Code Signing and Provisioning Profiles

Code Signing Certificates

- Valid for **three** years
- Up to two valid certs at a time
- Update app binary to renew

Provisioning Profiles

- Valid for **one** year
- Renew at any time
- No need to update app binary
- Update over MDM

Code Signing and Provisioning Profiles

Code Signing Certificates

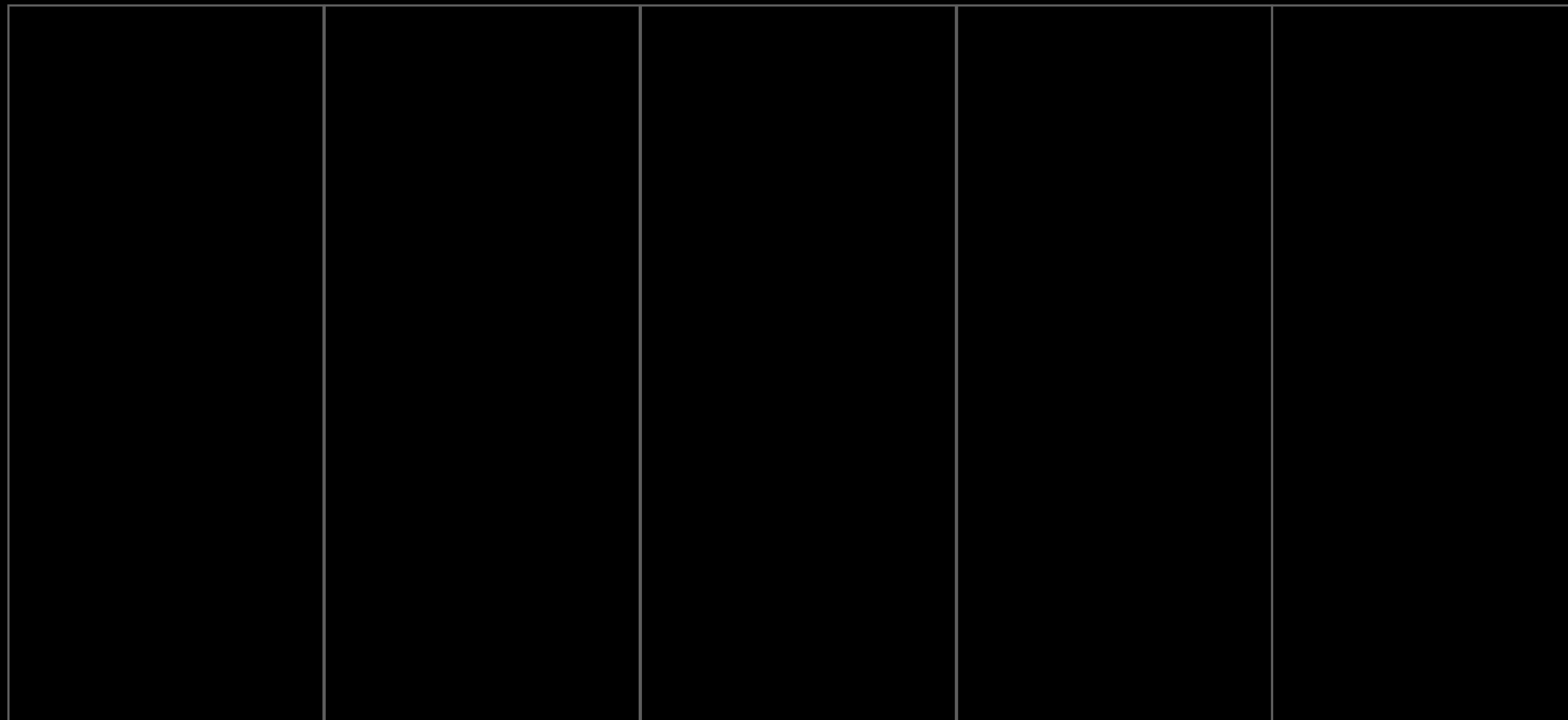
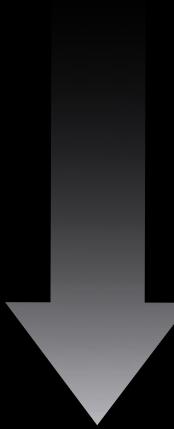
- Valid for **three** years
- Up to two valid certs at a time
- Update app binary to renew

Provisioning Profiles

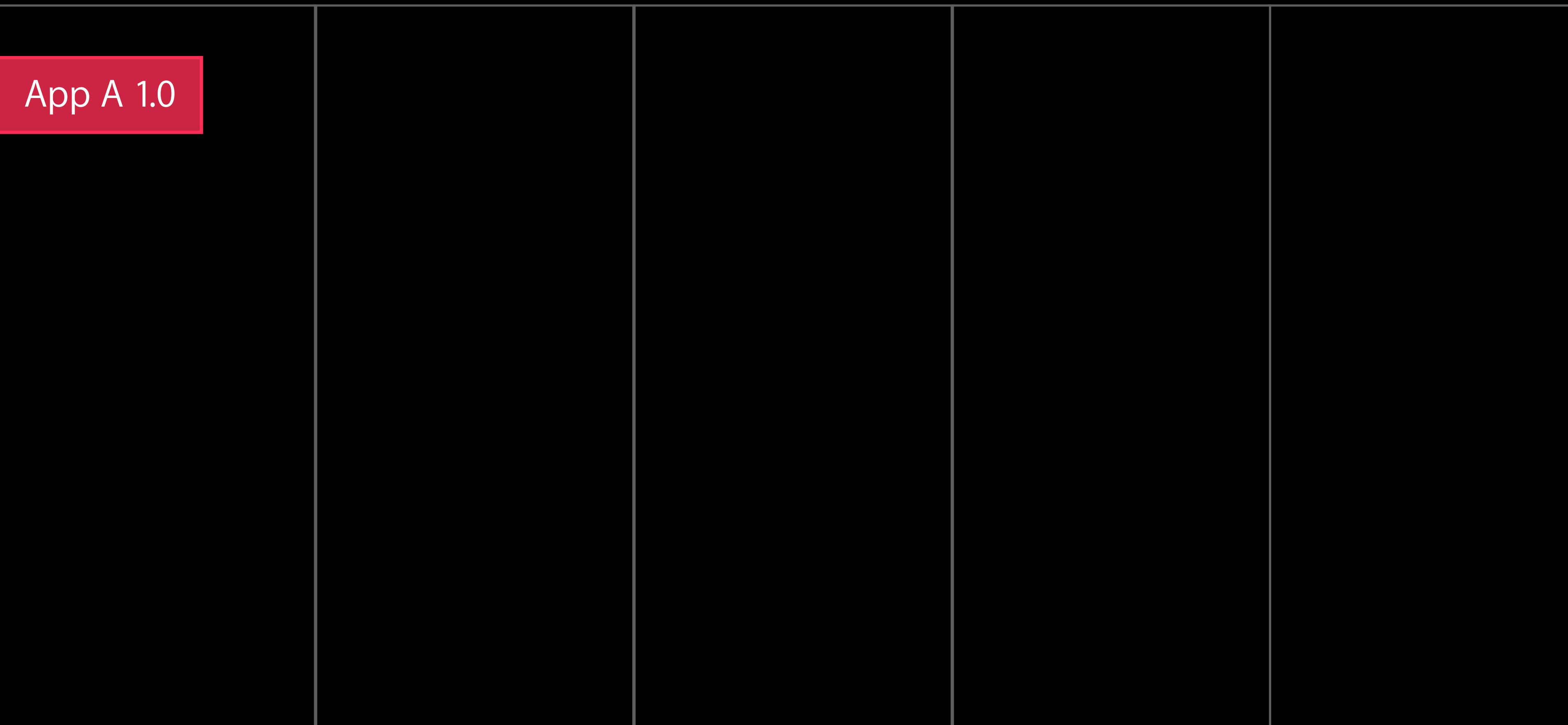
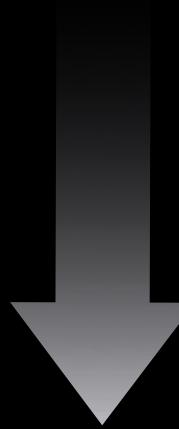
- Valid for **one** year
- Renew at any time
- No need to update app binary
- Update over MDM

Enterprise Apps need valid code signing and provisioning profile to run

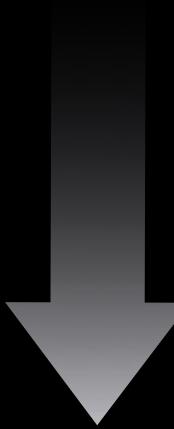
Code Signing and Provisioning Profile



Code Signing and Provisioning Profile



Code Signing and Provisioning Profile



Code Signing and Provisioning Profile



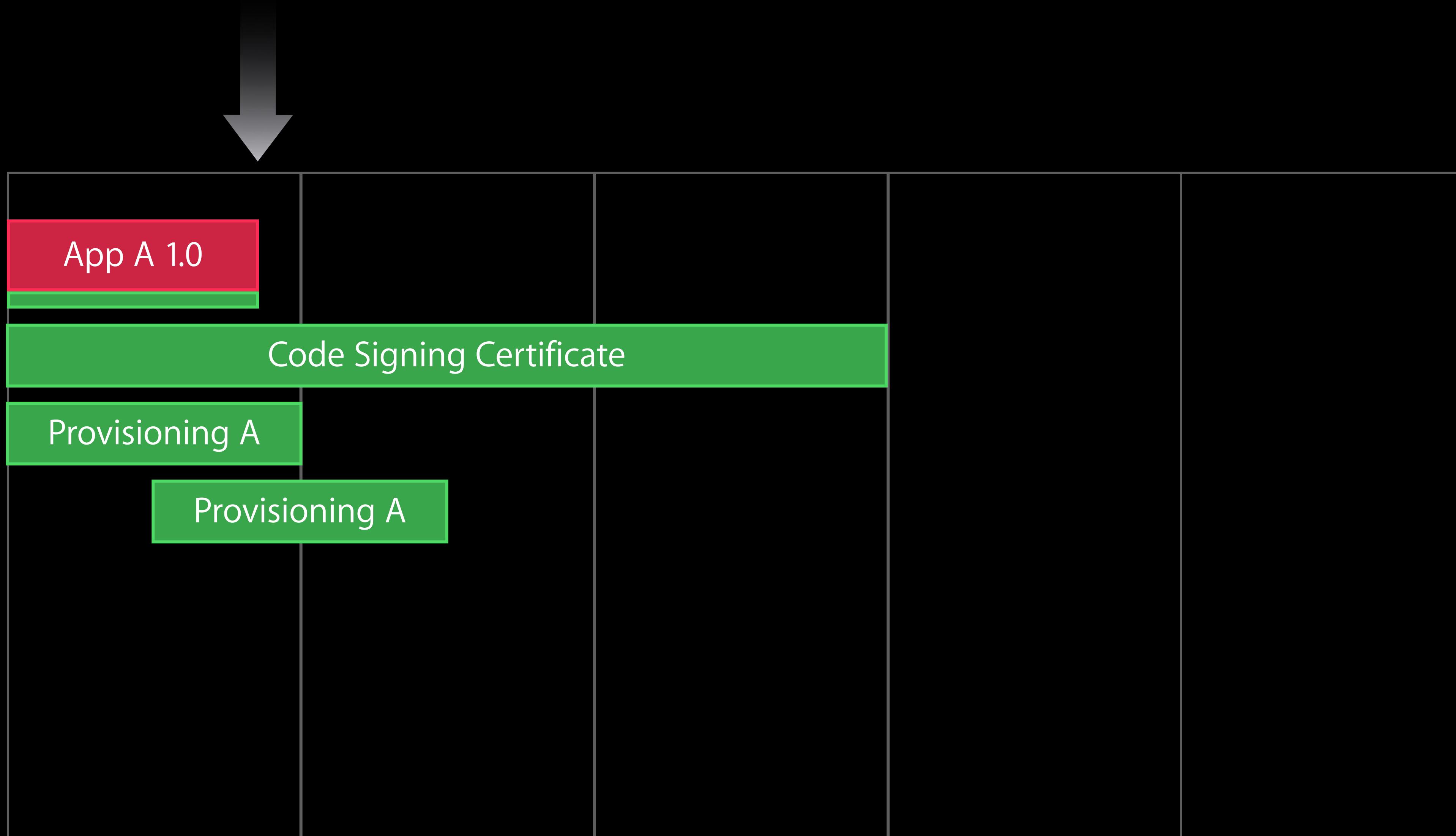
Code Signing and Provisioning Profile



Code Signing and Provisioning Profile



Code Signing and Provisioning Profile



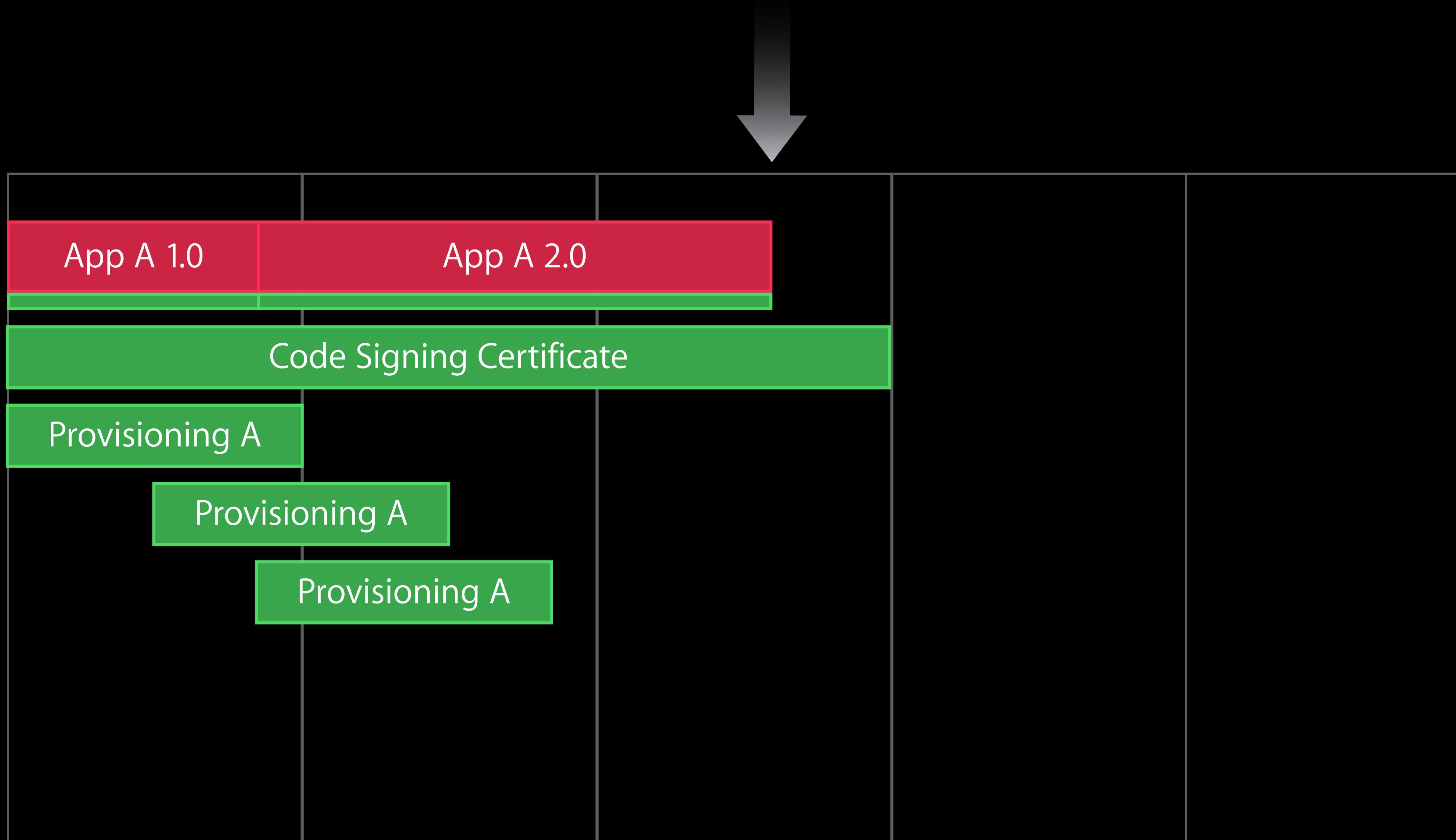
Code Signing and Provisioning Profile



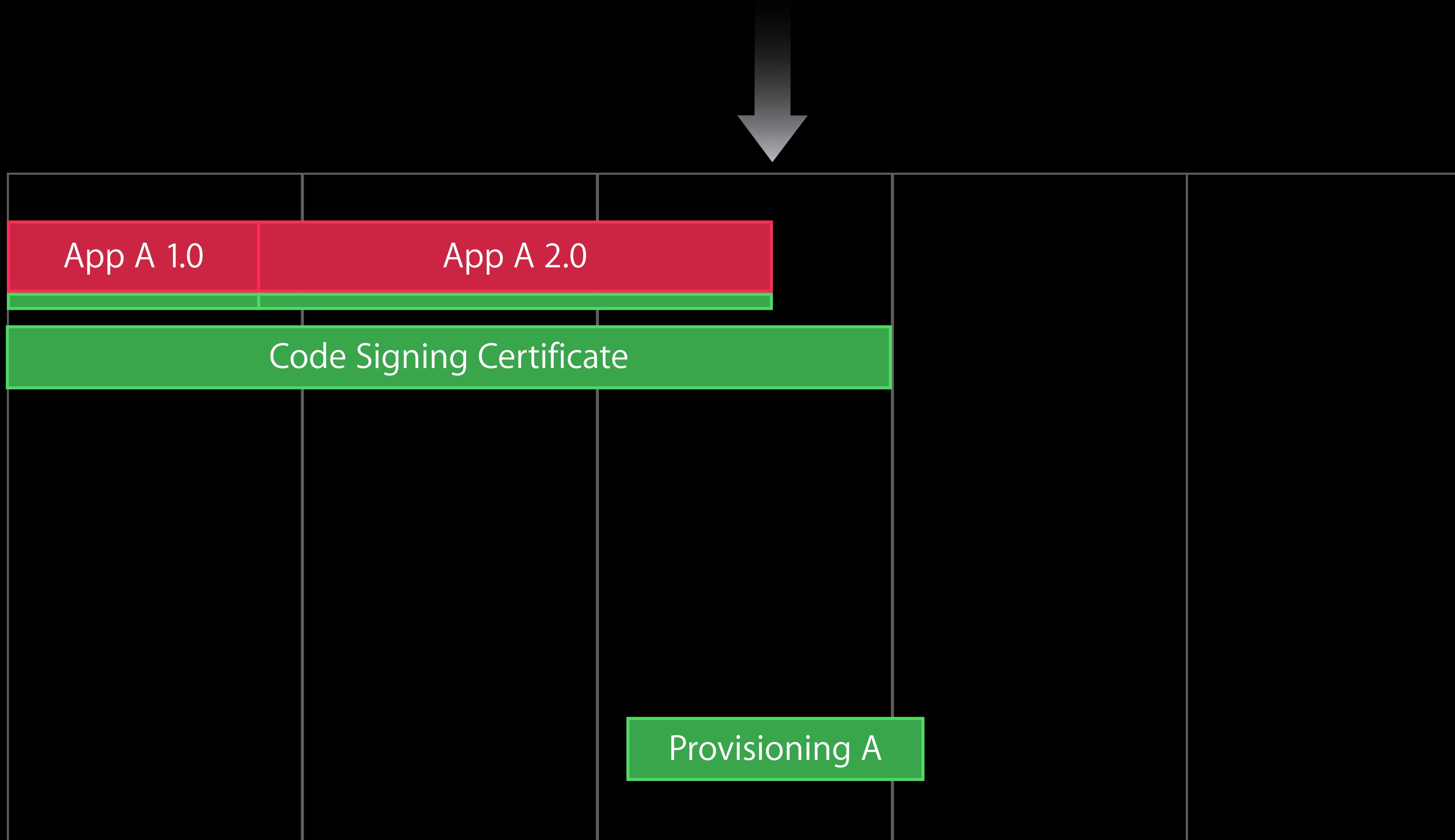
Code Signing and Provisioning Profile



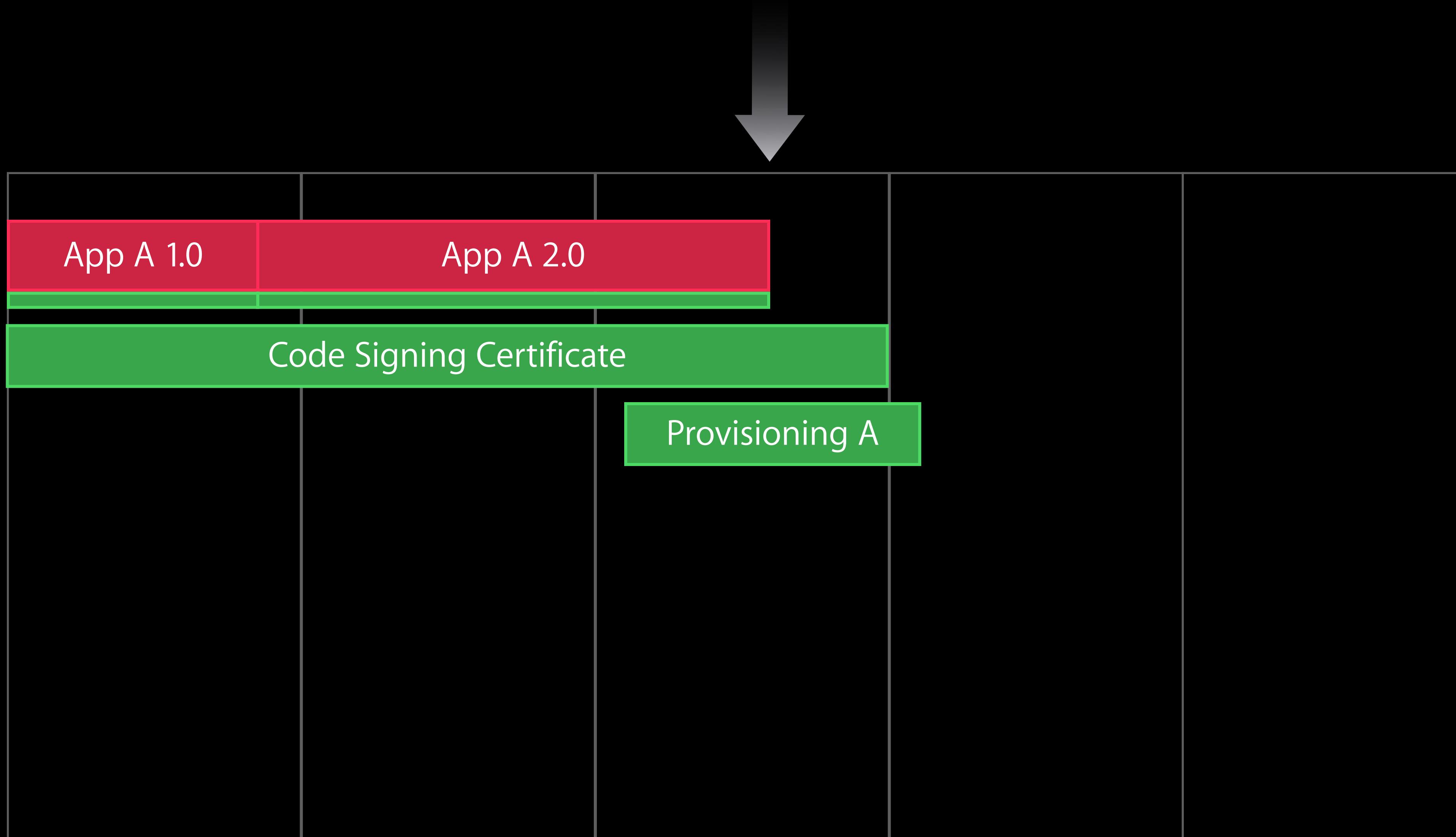
Code Signing and Provisioning Profile



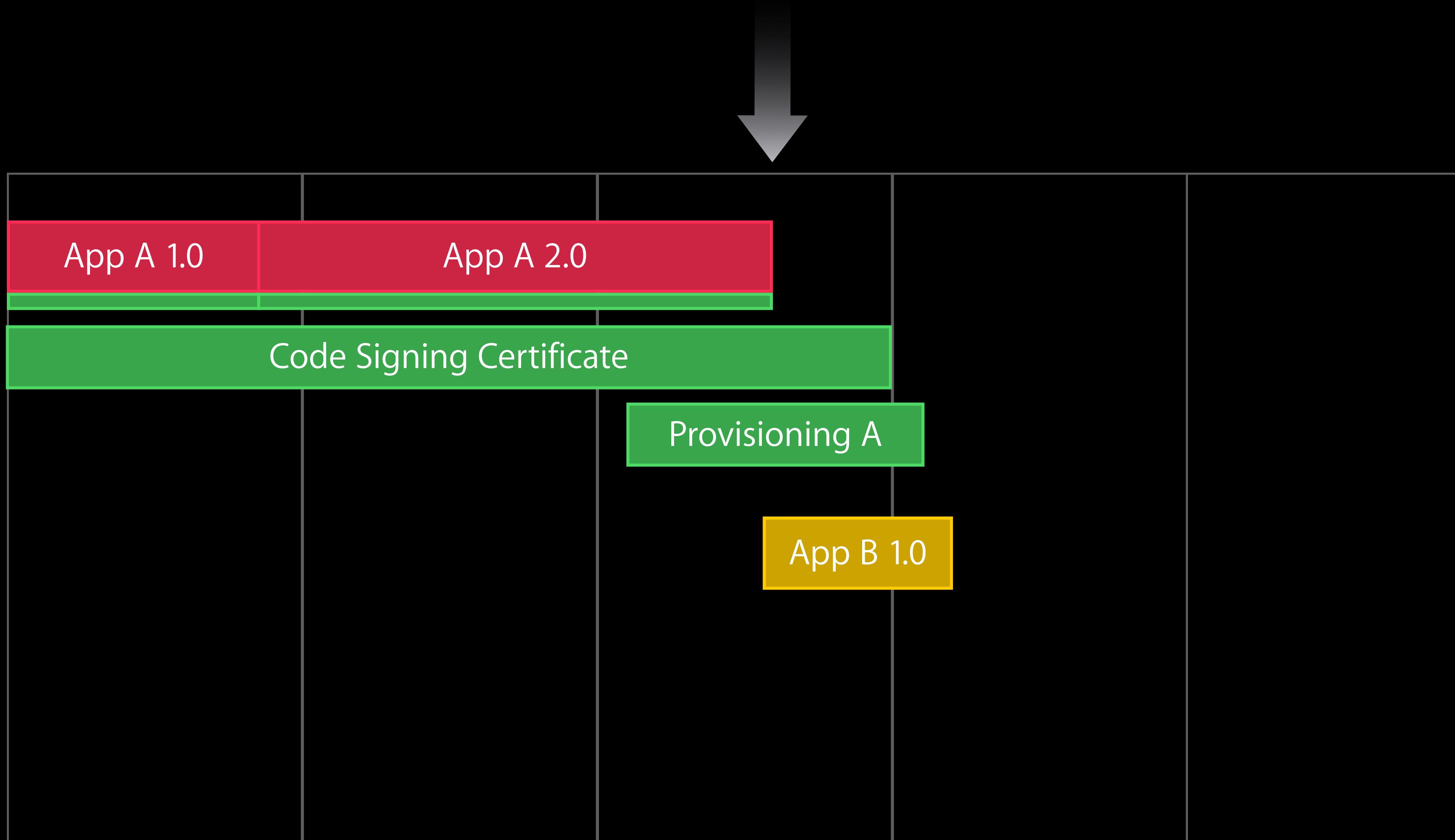
Code Signing and Provisioning Profile



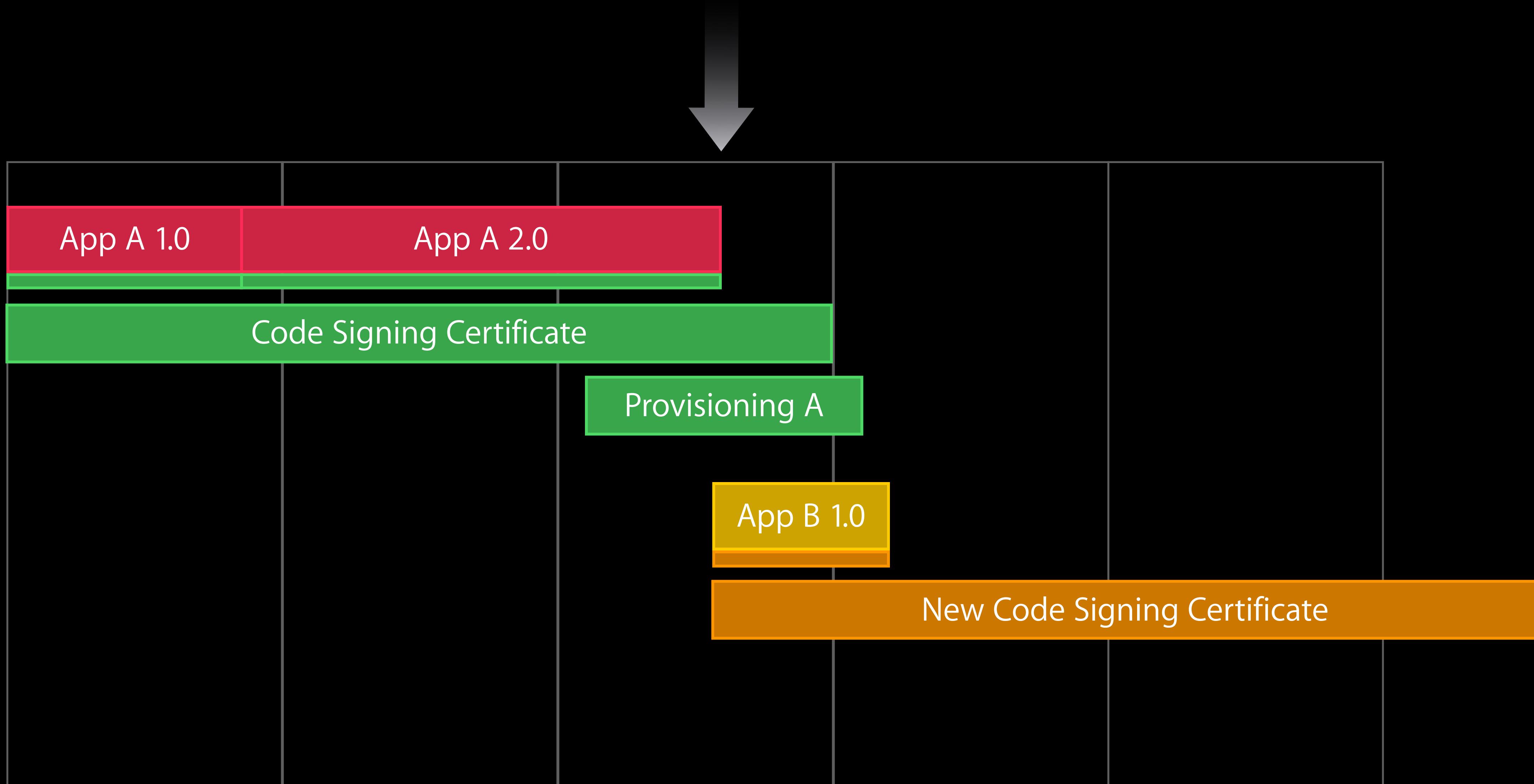
Code Signing and Provisioning Profile



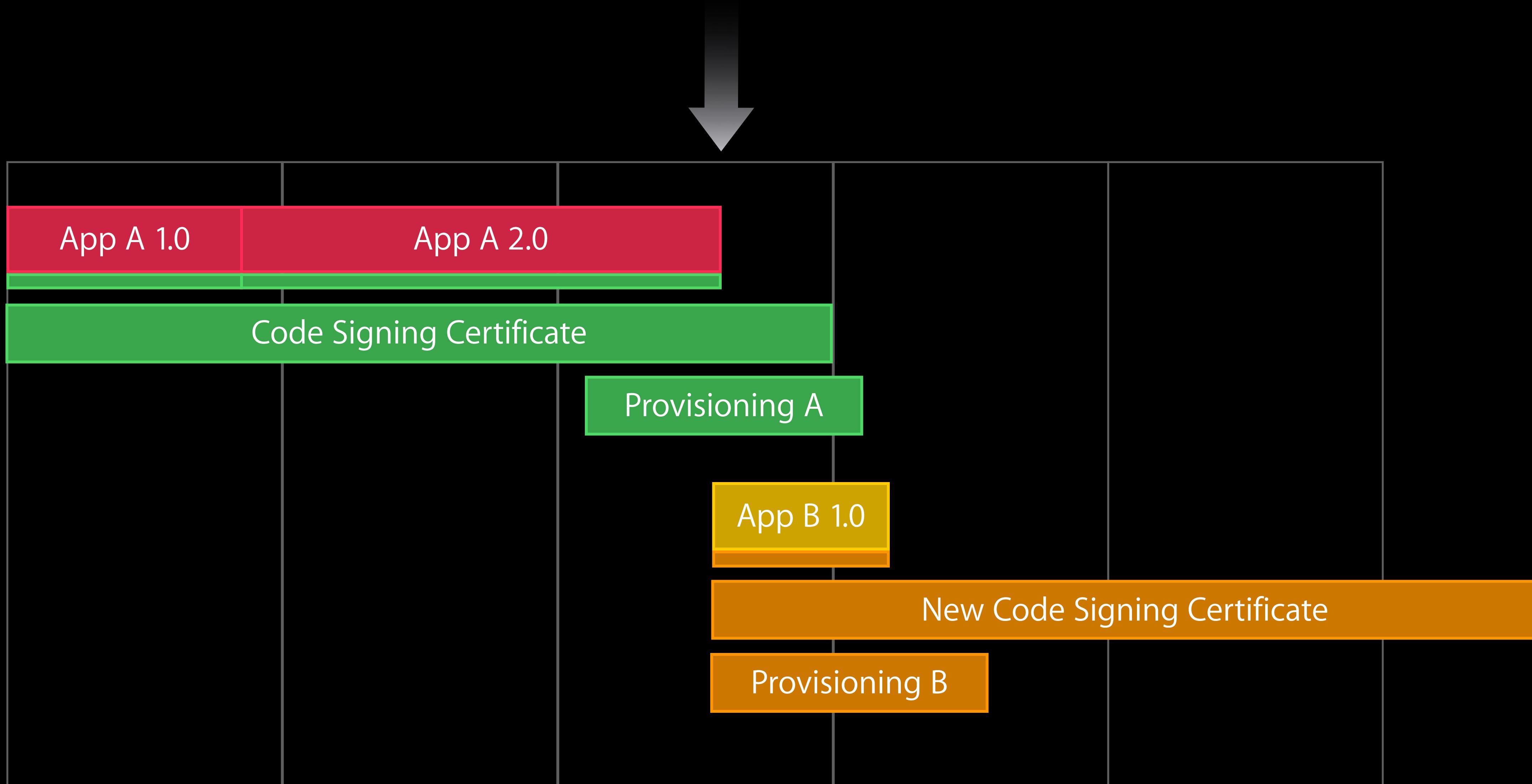
Code Signing and Provisioning Profile



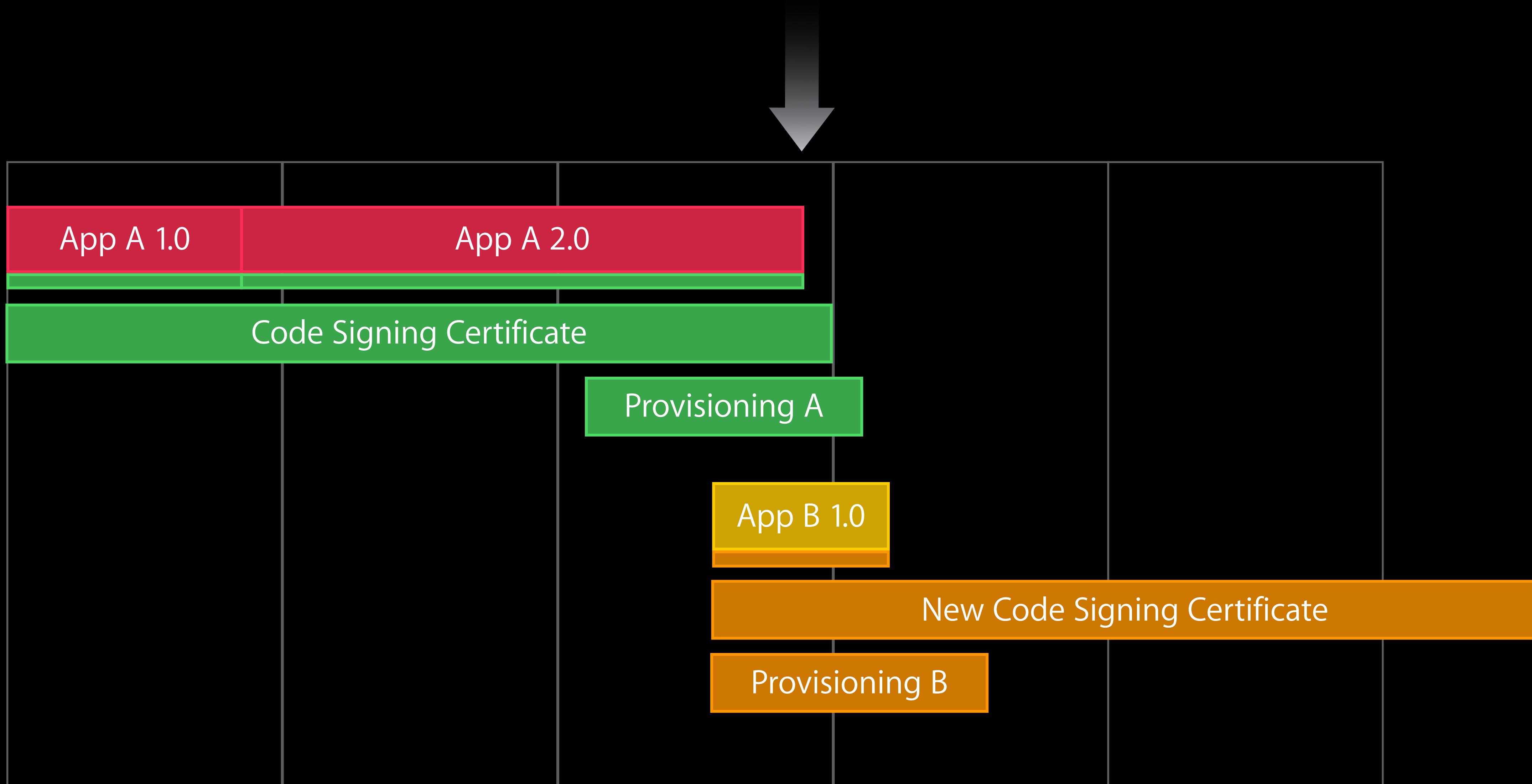
Code Signing and Provisioning Profile



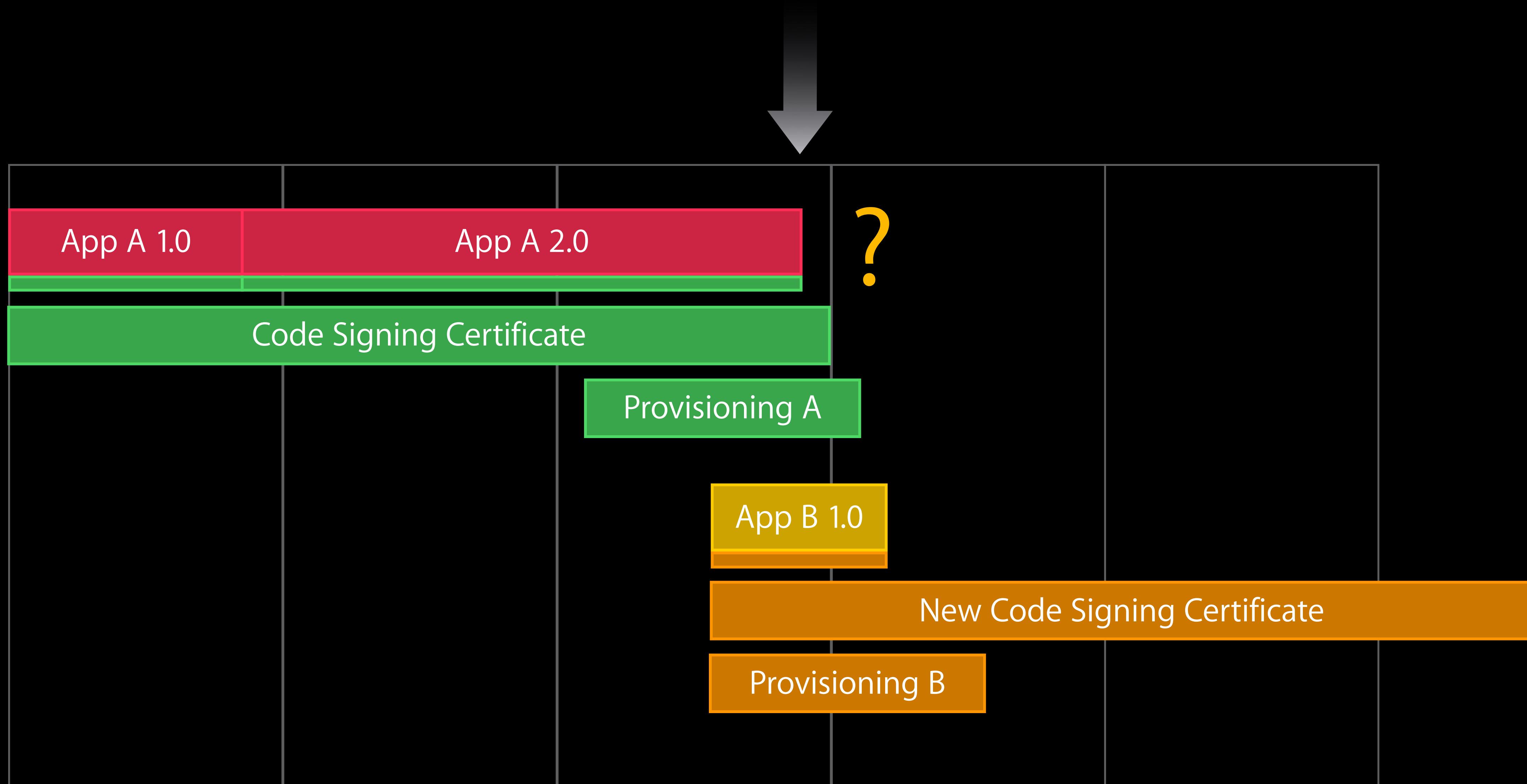
Code Signing and Provisioning Profile



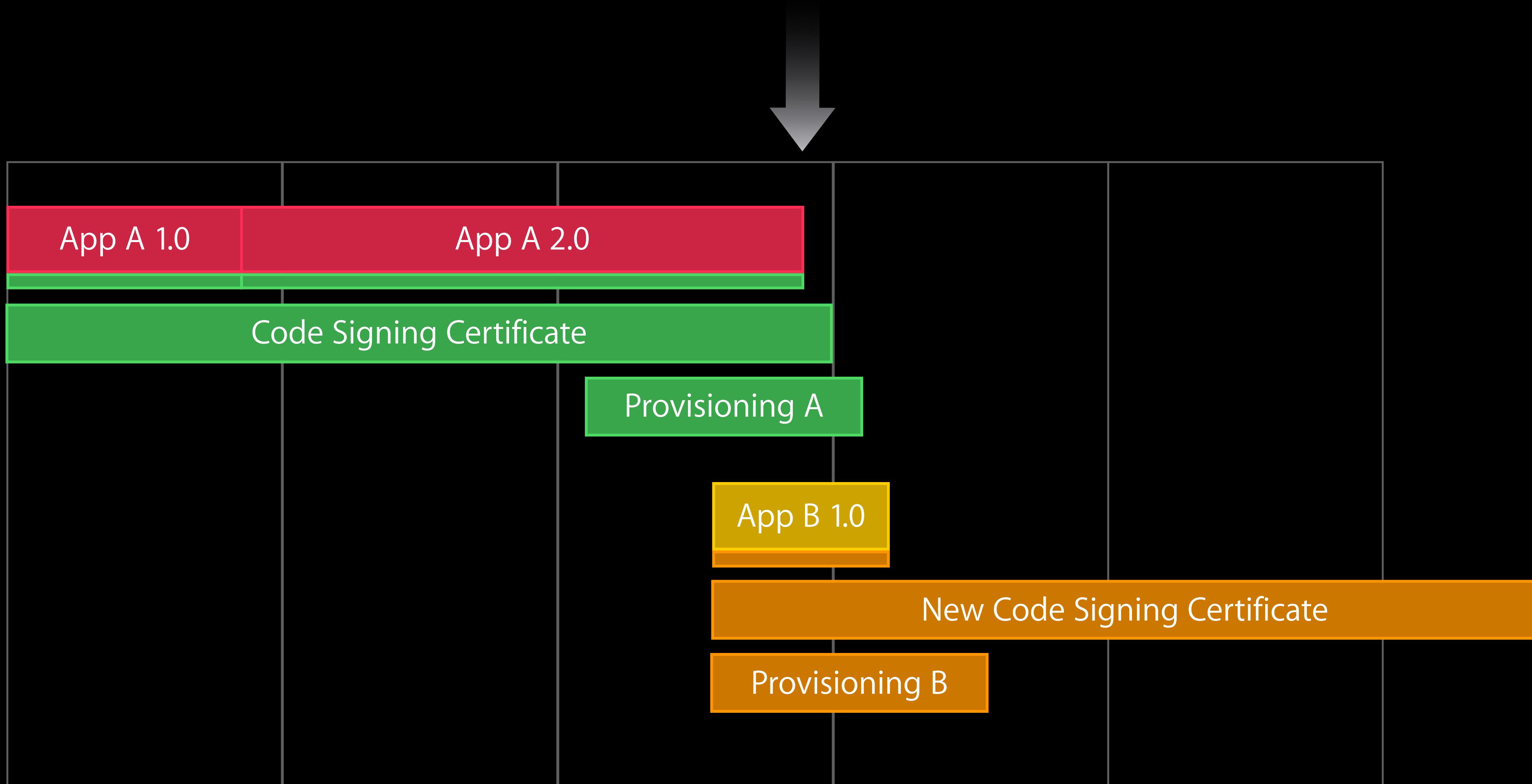
Code Signing and Provisioning Profile



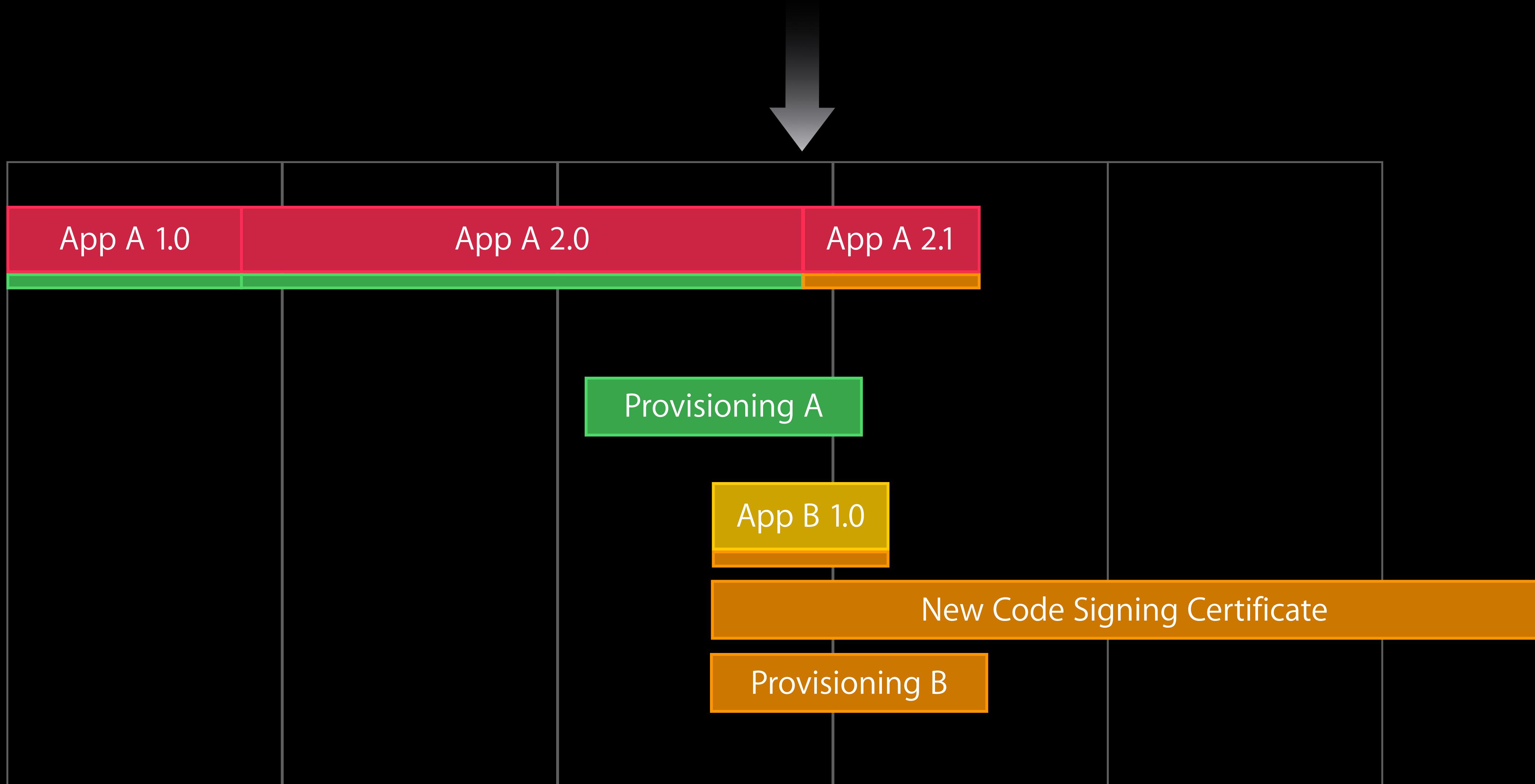
Code Signing and Provisioning Profile



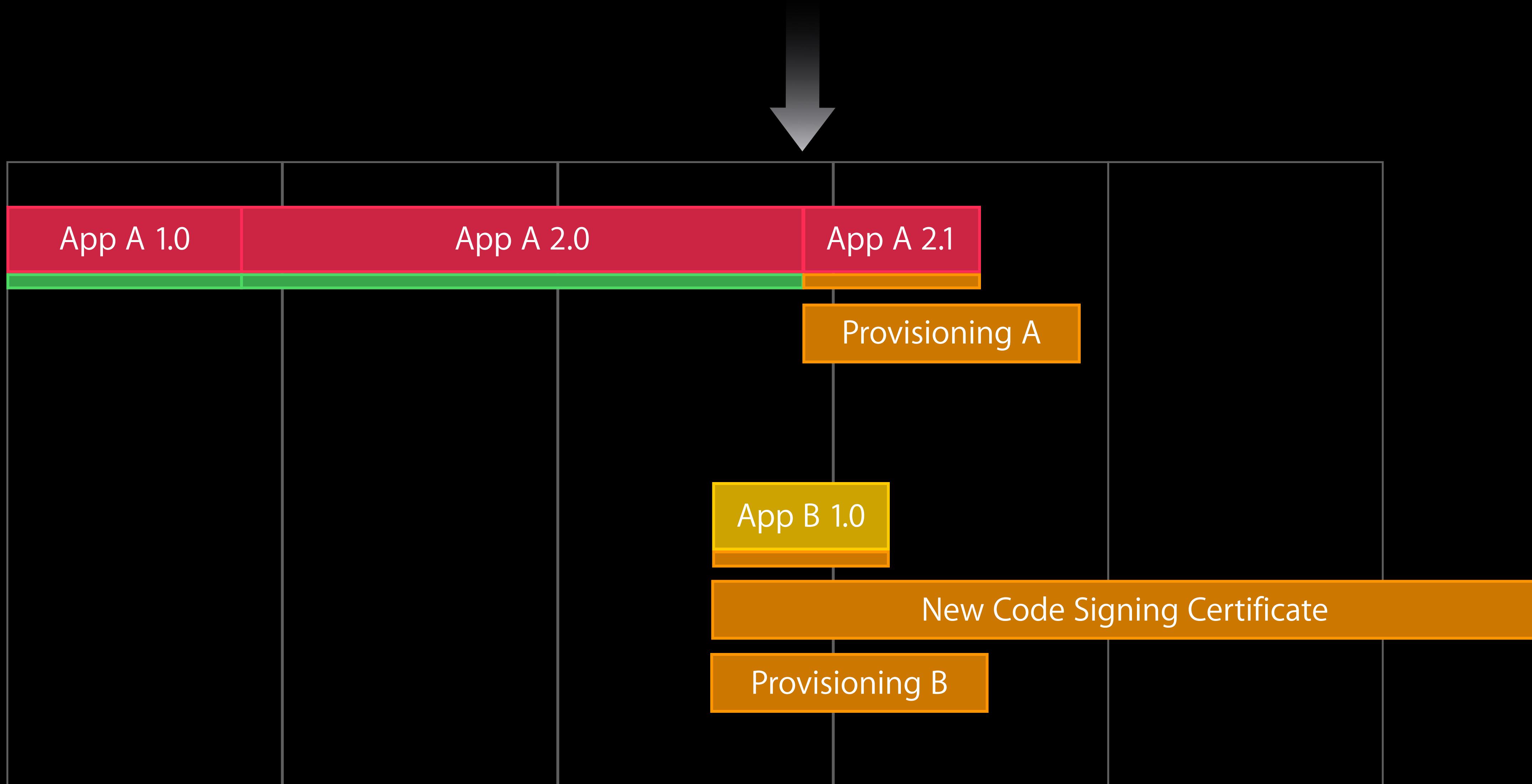
Code Signing and Provisioning Profile



Code Signing and Provisioning Profile



Code Signing and Provisioning Profile



Best Practices

Notice code signing expiration date

Use newest code signing certificate

Embed a new provisioning profile

Host in-house apps using HTTPS

Use MDM to distribute apps and refresh provisioning profiles

App must be updated to change code signing certificate

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Custom B2B

Hosted in the App Store

Visible to limited audience

Reviewed by Apple

No provisioning profiles needed

Publishing Custom B2B

App Store Developer
Use iTunes Connect
Check “Custom B2B”

Select the availability date and price tier for your app.

Availability Date 05/May 30 2014 [?](#)

Price Tier Select [View Pricing Matrix ▶](#) [?](#)

Discount for Educational Institutions [?](#)

Custom B2B App [?](#)

Volume Purchase Program Customers

For a custom B2B app, you must enter at least one Apple ID that was created for use with the Volume Purchase Program (the Apple ID is usually an email address). This app will only be available to the Volume Purchase Program Apple IDs you specify here (you can add as many as you would like). To learn more about the App Store Volume Purchase Program for Business, visit <http://vpp.itunes.apple.com/faq>. To learn more about how your customers can sign up for the Volume Purchase Program, visit <http://enroll.vpp.itunes.apple.com>.

Apple IDs [Add Apple ID](#)

johnnyappleseed@apple.com [X](#)

Unless you select [specific stores](#), your app will be for sale in all App Store Volume Purchase Programs for Business worldwide.

Publishing Custom B2B

App Store Developer
Use iTunes Connect
Check “Custom B2B”

Select the availability date and price tier for your app.

Availability Date 05/May 30 2014 [?](#)

Price Tier Select [View Pricing Matrix ▶](#) [?](#)

Discount for Educational Institutions [?](#)

Custom B2B App [?](#)

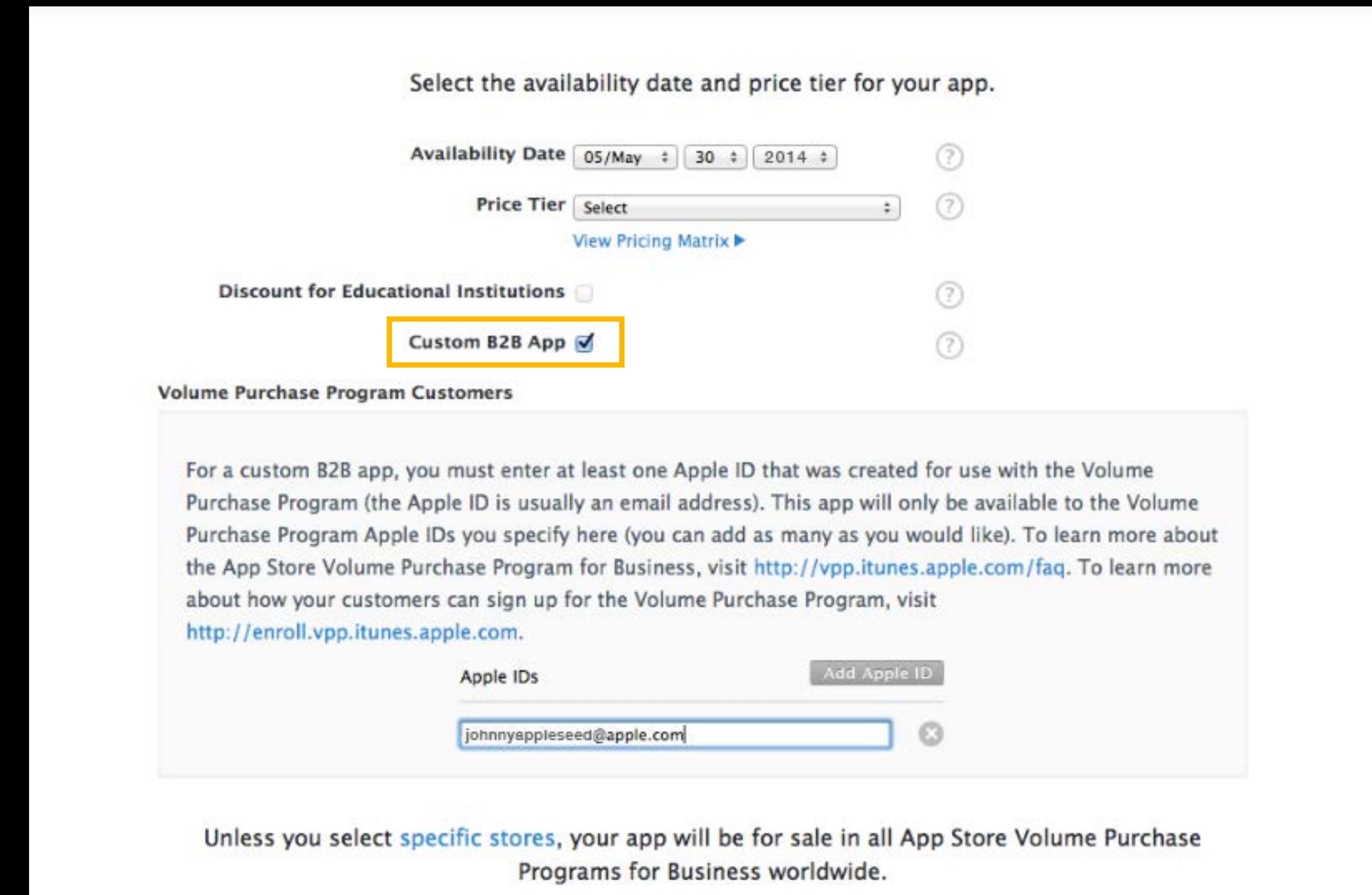
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Apple IDs [Add Apple ID](#)

johnnyappleseed@apple.com [X](#)

Unless you select [specific stores](#), your app will be for sale in all App Store Volume Purchase Programs for Business worldwide.



Publishing Custom B2B

Specify customer Apple IDs

Select the availability date and price tier for your app.

Availability Date 05/May 30 2014 [?](#)

Price Tier Select [?](#)

[View Pricing Matrix ▶](#)

Discount for Educational Institutions [?](#)

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Apple IDs [Add Apple ID](#)

[X](#)

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Publishing Custom B2B

Specify customer Apple IDs

Select the availability date and price tier for your app.

Availability Date 05/May 30 2014 [?](#)

Price Tier Select [View Pricing Matrix ▶](#) [?](#)

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Apple IDs [Add Apple ID](#)

johnnyappleseed@apple.com [X](#)

Unless you select [specific stores](#), your app will be for sale in all App Store Volume Purchase Programs for Business worldwide.

Purchasing Custom B2B

VPP Portal

Purchase licenses
Push using MDM

The screenshot shows a web browser window titled "Volume Purchase Program for Business". The URL in the address bar is vpp.itunes.apple.com/store?cc=US&l=en. The page header includes links for Store, Mac, iPod, iPhone, iPad, iTunes, Support, and a search icon. On the right side of the header, it shows "Acme Inc.", a balance of "\$0.00", and an email address "jappleseed@acme.com". Below the header, there's a search bar with fields for "Search" (containing "Name, ISBN, or Link") and "Media Type" (set to "All"). A "Search" button is also present. The main content area features a message: "To get started, search for an app or book." Below this, there's a section titled "Custom B2B Apps For Acme Inc." which contains a table of three apps:

Name	Developer	Category	Released/Updated	Price
Board Papers	Pervasent	Business	09/01/11	\$9.99
ScrollMotion Enterprise	ScrollMotion	Business	04/01/14	\$0.00
SM Enterprise	ScrollMotion	Business	02/12/13	\$0.00

A small note at the bottom of the table says "● indicates an app designed for both iPhone and iPad."

Custom B2B

Great for custom apps if you don't own the code

Great for subsidiaries

Hosted by Apple

No code signing or provisioning profile expiration

Promo codes for beta testing

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Summary

Agents and Admins should be employees

Contractors should be Team Members

Use Xcode Server for continuous integration

Keep an eye on code signing certificate expiration

Use Custom B2B if you don't own the code

developer.apple.com/enterprise

iOS Developer Program – Apple Developer

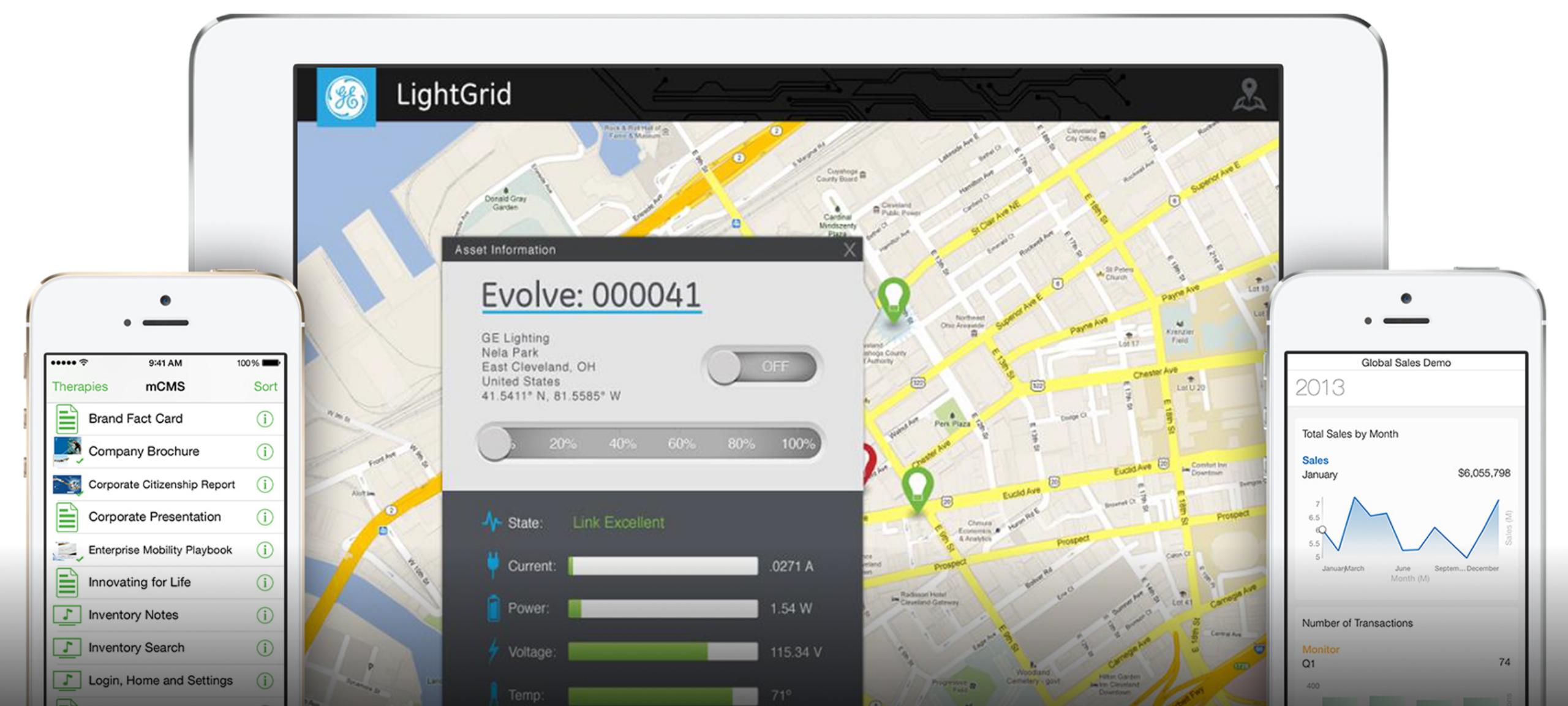
https://developer.apple.com/enterprise

Wikipedia News Popular Apple Yahoo! Google Maps YouTube

Developer Technologies Resources Programs Support Member Center

Reinvent your enterprise with iOS.

iOS 8 is more advanced than ever for every line of business. Get the latest content from WWDC14 geared to IT and enterprise developers. Learn about key technologies in iOS including how to deploy devices, secure corporate data, and build breakthrough custom apps.



The image shows three iPhone screens illustrating various enterprise iOS applications:

- LightGrid**: A map-based application showing asset information for "Evolve: 000041". It displays the asset's location (GE Lighting, Nela Park, East Cleveland, OH, United States) and provides real-time data for State (Link Excellent), Current (0.271 A), Power (1.54 W), Voltage (115.34 V), and Temp (71°).
- mCMS**: A mobile content management system interface listing documents such as Brand Fact Card, Company Brochure, Corporate Citizenship Report, Corporate Presentation, Enterprise Mobility Playbook, Innovating for Life, Inventory Notes, Inventory Search, Login, Home and Settings, and MDT iPad Use Guide.
- Global Sales Demo**: A dashboard showing "Total Sales by Month" for 2013. The chart indicates sales figures for January (\$6,055,798), February (7.5M), March (5.5M), April (6.5M), May (5.5M), June (5M), July (5.5M), August (6M), September (5.5M), October (6M), November (7M), and December (7.5M). Below the chart, a bar graph shows the "Number of Transactions" for Monitor Q1 (400), Monitor Q2 (500), and Monitor Q3 (74).

More Information

Paul Danbold
Core OS Technologies Evangelist
danbold@apple.com

Documentation
iOS Developer Program
<http://developer.apple.com/enterprise>

Apple Developer Forums
<http://devforums.apple.com>

Related Sessions

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- Managing Apple Devices Pacific Heights Tuesday 9:00AM
 - Building Apps for Enterprise and Education Pacific Heights Tuesday 10:15AM
-

Labs

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- Developing Apps for Enterprise and Education Core OS Lab A Wednesday 2:00PM
 - Managing Apple Devices Core OS Lab B Thursday 9:00AM
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