

Version 3.0

GETTING STARTED GUIDE



Accela SDK for iOS Getting Started Guide

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TABLE OF CONTENTS

Preface	4
Revision History 4	
Getting Help 4	
Related Publications5	
Documentation Feedback5	
Getting Started with Accela SDK for iOS	6
Preparing Your Environment6	
Registering Your iOS App on the Accela Developer Portal	
Installing the Accela SDK for iOS8	
Installing the ArcGIS Runtime SDK for iOS10	
Using the Accela SDK for iOS10	
Sample Projects	

PREFACE

The Accela SDK for iOS is designed to be easy to install and use. This guide walks you through the basics of setting up the development environment.

Revision History

This revision history table summarizes changes made during each release of this document for version 3.0 of Accela SDK for iOS.

Table 1: Revision History

Date	Description
August 2013	Updated to the latest terminology and user interfaces
May 2013	Initial document release

Getting Help

If you need technical assistance, one of your best resources is the Accela Customer Resource Center (CRC). There, you can search the knowledge base to find answers to commonly asked questions about our products. You can also register to use the Accela Forum where you can find a wealth of practical information from other Accela users, as well as participate in dynamic information exchange.

If you still have questions after visiting Accela's CRC site, or if you encounter any problems as you use the product, contact your agency administrator.

If you determine that you need professional technical assistance, have your agency's designated contact call the CRC at (888) 7-ACCELA, ext. 5 or (888) 722-2352 ext. 5. The Accela CRC is available Monday through Friday from 6:00 AM to 6:00 PM (PST/PDT)

Before calling, please have the following information available for the CRC representative:

- The Accela product name and version number.
- Steps to replicate the issue, including any error message or error number.
- Screen shots, if possible.
- Whether the problem is specific to a machine or to a user.
- Exactly when the problem began.
- Anything that changed on your computer or network (for example, new software was loaded).

• A copy of your configuration file, if appropriate.

Related Publications

Accela provides a set of Accela SDK documents for agency and third-party developers.

- A311 Xcode Project Template Getting Started Guide
- Accela Login Getting Started (online help)

Documentation Feedback

Accela wants to provide you with the most accurate and useful documentation possible. We welcome your feedback in helping us improve future versions of this guide. Send an e-mail message with your feedback to documentation@accela.com. Please include the product name and version number, whether the feedback involves a printed manual or online help, the topic title, and a brief description and context of the suggestion.

GETTING STARTED WITH ACCELA SDK FOR IOS

Topics

- Preparing Your Environment
- Registering Your iOS App on the Accela Developer Portal
- Installing the Accela SDK for iOS
- Installing the ArcGIS Runtime SDK for iOS
- Using the Accela SDK for iOS
- Sample Projects

Preparing Your Environment

The environment where you install and use Accela SDK for iOS must meet the following requirements:

- Xcode 4.2 or higher
- iOS SDK 5.0 or higher
- ArcGIS Runtime SDK for iOS 2.3 or higher

Contact Accela Customer Resource Center for recommended environment requirements. Contact Accela Customer Resource Center at 1-888-722-2352 ext. 5. Office hours are Monday–Friday 4:00am to 6:00pm Pacific Time. You can also contact Accela Customer Resource Center through the Web site at http://www.accela.com/services/support-login.

Registering Your iOS App on the Accela Developer Portal

To register your iOS app on the Accela Developer Portal

1. Log in to the Accela Developer portal.

Login	
Email Address:	
Password:	
Forgot your password?	
Sign In	

- 2. Navigate to the My Apps tab.
- 3. Click the Add New App button.

The app creation page appears.

DEVELOPE	R PORTAL Resources My Apps Profile	
Create a new	app >	
Targeted Users * : App Name * : App Description * :	Agancy App Citizan App	
Stage :	Under Development	
App Secret *:	6f37ed03b3c04470a9044624e2945591 Reset	
Enabled *:	X	
Submit (Cancel	

4. Complete the required fields.

Targeted Users	To create an app for agency users, select the Agency App option. To create an app for citizen users, select the Citizen App option.
App Name	Enter the app name.
App Description	Enter a description of the app.
Stage	Select "Under Development" or "Published" from the drop-down list. This field defines the app development stage.

App Secret	The app secret is generated automatically. Remember the value of the app secret and it will be required when setting up your app with Accela SDK.
Enabled	Mark the check box to enable the app or clear the check box to disable the app.

5. Click the **Submit** button.

Your application is now registered.

6. Note down your App ID and App Secret as you will need them to access APIs when setting up your app in Xcode.

Installing the Accela SDK for iOS

If you already have an older version of the Accela SDK for iOS installed on your machine, uninstall it before proceeding. To uninstall the Accela SDK for iOS, run the /Library/Accela/ MobileSDKs/UninstallAccelaMobileSDK python script in the Terminal application.

To install the Accela SDK for iOS

- 1. Navigate to the Resources tab on the Accela Developer Portal.
- 2. From the iOS Resources list, click the **Download Accela SDK for iOS** link.

DEVELOPER POR	TAL Resources My Apps Profile 🛛
API Resources	The Civic Platform
Login - Getting Started REST API - Getting Started REST API Reference	Aceta Ovic Platform provides a complete civic engagement platform that first the needs of government agencies large and small, streamlines civic processes and engages entre communes. Aceta Automation is the heart of the Ovic Platform, and is powering hundreds of governments of all sizes as a complete solution for automating micric tasks associated with permitting licenting, code enforcement, community development, planning, inspections and investigations, infrastructure, asset management, emergency response, and many more.
IOS Resources Getting Started Download SDK for IOS	The Civic Platform developer program lets you extend existing solutions, build custom solutions and apps that can be used by the agency staff and the ottoens. These apps create efficiencies for agency staff, while increasing citeen engagement with government.
Download Sample Applications IOS Reference Library	Developer Resources
Android Resources	The Developer Portal is a single, central location for all the tools and resources needed to develop solutions, apps for the Civic Platform.
Getting Started Download SDK for Android Download Sample Applications Android Reference Library	IOS Resources The IOS's SDKa, APIs & Tools to start building apps and showcase the best practices.
Windows 8 Resources	Elownitioad Accela SDK for IOS Getting Stanted
Getting Started Download SDK for Windows 8	Download Sample Applications
Download Sample Applications Windows 8 Reference Library	Android Resources

- 3. Save the installation package (*.pkg) into your local drive.
- 4. Locate the installation package and double-click it.

If the following message appears and prevents you from launching the installation wizard, modify the Gatekeeper option as follows and then try to start the installation again.



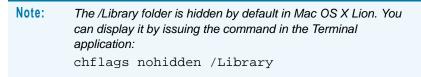
- a. Navigate to Apple menu > System Preferences... > Security & Privacy > General tab.
- b. Select Anywhere within "Allow applications downloaded from:" section.

For more information about Gatekeeper, see http://support.apple.com/kb/HT5290.

00	Security & Privacy		
Show All		٩	
 ☐ Require passwor ☐ Show a message ✓ Disable automat Allow applications down ☐ Mac App Store 	een set for this user Change d immediately + after slee when the screen is locked ic login	p or screen saver begins	
Click the lock to prevent furth	er changes.	Advanced	?

5. Step through the wizard.

The SDK components are installed under the /Library/Accela/MobileSDKs folder. This folder contains these sub-folders or files:



 Accela. This folder contains Xcode project templates that are specific to Accela SDK for iOS.

- AccelaMobile.framework. This file contains SDK library, image source, and header files.
- **Samples**. This folder contains sample projects: an agency app project and an citizen app project.
- third-party. This folder contains the third-party library that the SDK uses.
- UninstallAccelaMobileSDK. Double-click this file to uninstall the Accela SDK. Or run the /Library/Accela/MobileSDKs/UninstallAccelaMobileSDK python script in the Terminal application to uninstall the SDK.

Installing the ArcGIS Runtime SDK for iOS

The Xcode project templates that are specific to Accela Mobile use the Esri ArcGIS map service, so you need to install the latest ArcGIS Runtime SDK for iOS on your machine as well. The ArcGIS Runtime SDK for iOS installation package (*.pkg file) is available at the ArcGIS official website.

After downloading the package, double-click it and step through the installation wizard. For more information about the ArcGIS Runtime SDK for iOS, please refer to the ArcGIS Resources Online.

Using the Accela SDK for iOS

After registering your iOS App and installing the Accela SDK for iOS and ArcGIS Runtime SDK for iOS, you have two options to get started with the Accela SDK for iOS: using the Xcode templates provided by the Accela SDK for iOS or importing required files from SDK into your existing project. For your convenience, we recommend you use the Accela Mobile specific Xcode project template, and step through the wizard.

Topics

- Creating a New Project with Accela Mobile Specific Xcode Templates
- Importing the Accela SDK for iOS into an Existing Project
- Changing User-Defined Setting and Defining URL Schemes

Creating a New Project with Accela Mobile Specific Xcode Templates

Once the installation of Accela SDK for iOS is completed, there are three different types of Accela Mobile specific Xcode project templates: A311 App, Agency App, and Citizen App. You can use one of the templates to create a new project. For detailed information about the Xcode project template from which you create an A311 app, see the *A311 Xcode Project Template Getting Started Guide*.

The process of creating a new project based on the three templates is the same. This topic uses the Agency App template as an example. You can, however, also follow this topic to create a new project with the A311 App or Citizen App template.

To create a new project using the Agency App template

1. Open Xcode and click **Create a new Xcode project**.

If Xcode is already opened, choose File > New > New Project.

The following window appears.

ios 👘				
Application Framework & Library	A311		×	
Other Accela	A311 App	Agency App	Citizen App	
🙀 Mac OS X				
Application Framework & Library Application Plug-in System Plug-in Other				

2. In the iOS section at the left side of the window, click the Accela tab.

Note: The "Accela" tab is available after you install the Accela SDK for iOS. See Installing the Accela SDK for iOS on page 8.

3. Select the **Agency App** template, and then click the **Next** button.

The following window appears.

co	Product Name mpany Identifier Accela App ID	agencyTemplate com.accela 634957100735692209 d973e56aafdc49e8b0a9b914794c20e1		
APPRICATION ANY	Bundle Identifier Module	com.accela.agencyTemplate Building Use Automatic Reference Counting	Previous	Next

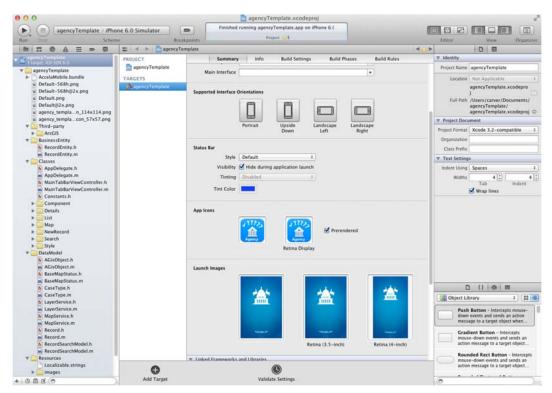
4. Complete the fields, and then click the **Next** button.

Draduct Nama	
Product Name	Enter the app name.
Company Identifier	Enter your company identifier, if you have one.
Accela App ID	Enter the App ID that you have noted down in Registering Your iOS App on the Accela Developer Portal on page 6. If you do not fill in this field properly, you will get an error message when trying to get any data from the Accela Civic Cloud Platform.
Accela App Secret	Enter the App Secret that you have noted down in Registering Your iOS App on the Accela Developer Portal on page 6. If you do not fill in this field properly, you will get an error message when trying to get any data from the Accela Civic Cloud Platform.
Bundle Identifier	This is a read-only field.
Module	Select a module from the drop-down list. It indicates which module your app pulls data from. The available options are AMS, Building, CaseManagement, Enforcement, Licenses, Planning, and ServiceRequest. Accela Automation provides those modules so you can manage the core business activities of a single department.
Use Automatic Reference Counting	Mark this check box to enable the Automatic Reference Counting (ARC) feature or clear this check box to disable the feature. According to Apple's documentation, ARC is a compiler-level feature that simplifies the process of managing object lifetimes (memory management) in Cocoa applications.

Note: You can update Accela App ID and Accela App Secret in the Xcode build settings if necessary. See Changing User-Defined Setting and Defining URL Schemes on page 17.

5. Specify where to save your project and then click the **Create** button.

The following screen appears after you save the project.



6. If necessary, click the **Run** button.

For the project housing an agency app, the login window appears. You must log into the app before previewing it. The app cannot send any request to the Accela Civic Cloud Platform before you log in as an agency user.



For the project housing an A311 or citizen app, the app appears for you to preview.

Importing the Accela SDK for iOS into an Existing Project

To add the Accela SDK for iOS to an existing project

- 1. Open an existing project in Xcode. For example, the project is named "InspectionViewer".
- 2. Do all of the following:
 - a. Add AccelaMobile.framework into your project.
 - 1) In the Navigator area, click **InspectionViewer** to open the Project and Targets configuration pane.
 - 2) Click the InspectionViewer target under the Targets section.
 - 3) Navigate to the Build Phases tab.
 - 4) Expand the Link Binary With Libraries section and click the + button.
 - 5) Click the Add Others button.

The following window appears.

	Choose frameworks and libra	iries to a	add:	
	AccelaMobile.frame	work	: Q	
▼ DEVICES	Accela	Þ	AccelaMobile	
🗾 Default HD	AccelaMoamework		AccelaMobile.bundle	
🔜 ВООТСАМР	Samples	Þ	Headers	⊳
🗖 iDisk	third-party	Þ		
► SHARED	💾 UninstallobileSDK			
▶ PLACES				
SEARCH FOR				
🕒 Today				
L Yesterday				
🕒 Past Week				
🔯 All Images 🛛 🎽		п		
🔯 All Movies 👻	(
			Cancel Open	

- 6) Navigate to the /Library/Accela/MobileSDKs folder, select the AccelaMobile.framework folder, and then click **Open**.
- b. Add AccelaMobile.bundle into your project.

The SDK resources such as the images for the login screen have been consolidated into the AccelaMobile.bundle file.

1) In the Navigator area, right-click **InspectionView** and select **Add File to** "**InspectionViewer**".

The following window appears.

	💷 🗐 Default HD	\$	Q (Q	
▼ DEVICES	Applications	4		
iDisk	🔤 Library 🔯 System	4		
► SHARED	🔝 Users	Þ		
 PLACES SEARCH FOR 	4			
C Today Yesterday	A V	н		
	 Copy items into des Create groups for al Create folder reference 	y added folder	s	ied)
Add to targets	A InspectionViewe	r		
New Folder			Cancel A	dd

2) Navigate to the /Library/Accela/MobileSDKs/AccelaMobile.framework folder.

3) Select the AccelaMobile.bundle file, clear the **Copy items into destination group's folder (if needed)** check box, and click **Add**.

The project is now aware of the Accela SDK for iOS.

- c. Add linker flags to your project.
 - 1) In the Navigator area, click **InspectionViewer** to open the Project and Targets configuration pane.
 - 2) Click the InspectionViewer target under the Targets section.
 - 3) Navigate to the **Build Settings** tab and locate the Other Linker Flags setting.

You can enter "Other Linker Flags" in the search box or find the setting within the Linking section.

4) Double-click the cell next to **Other Linker Flags**, enter the following flags in the popup window, and then click **Done**:

-lz

-ObjC

-all_load

		🖄 Inspe	ctionViewer.xco	odeproj					\bigcirc
			Xcode						
Break	kpoints						Editor	View	Organizer
	viewei		Summary	Info	Build Settings	Build Phases	Build Rules		
PROJECT	Basic All			mio	Build Settings	Q- other linke			0
_	Basic All Setting	Combined	Levels	pectionVie	wer	Q+ other linke	er flag		0
TARGETS	▼Linking			peccionvie	wei				
🗛 InspectionViewer		Standard Libraries	Yes ‡						
	▶ Other Link	er Flags							
			-lz						
			-ObjC						
			-all_load						
			+ -						
								C	Done

- d. Add header files into your project.
 - 1) In the Build Settings tab and locate the Header Search Paths setting.

You can enter "Header Search Paths" in the search box or find the setting within the Search Paths section.

2) Double-click the cell next to **Header Search Paths**, enter the following paths in the pop-up window, and make sure the **Recursive** option for each path is not marked:

			Inspection	Viewer.xcodeproj			
ne 5.1 Simulator		CI	ean Succeeded	Today at 1:57 PM			
ieme	Breakpoints		No	Issues			
🏭 🔺 🕨 📩 Inspecti	onViewer						
PROJECT		Summary	Info	Build Settings	Build Phases	Build Rules	۷
InspectionViewer	Basic 🔝	Combined	Levels		Q+ header sea	ır	0
TARGETS	Setting		A	InspectionViewer			
A InspectionViewer	▼Search Paths						
	Always Search		No				
	► Header Searc		iph	oneos/usr/include/l	libxml2		
	User Header S	earch Paths	1			1	
				SDKROOT/usr/include	e/noxiniz		
			+ -				
							*

\$SDKROOT/usr/include/libxml2

- e. Add required frameworks from the iOS section to the project.
 - 1) Navigate to the **Build Phases** tab.
 - 2) Expand the Link Binary With Libraries section and click the + button.
 - 3) Search for and select each of the following frameworks within the iOS folder, and then click **Add**.
 - CoreGraphics.framework CFNetwork.framework Foundation.framewrok MobileCoreServices.framework SystemConfiguration.framework UIKit.framework libxml2.2.7.3.dylib libz.1.1.3.dylib

Changing User-Defined Setting and Defining URL Schemes

After creating a project in Xcode, you may change user-defined setting such as Accela App ID, Accela App Secret, and Module that you entered in the wizard when creating a new project as Creating a New Project with Accela Mobile Specific Xcode Templates on page 10 instructed. You may also need to define URL Schemes for the app to receive data from a web-based application.

To change the user-defined setting and define URL schemes

- 1. Click the project node in the left Navigator area of Xcode.
- 2. Select the desired target under the Targets section.
- 3. Navigate to the **Build Settings** tab and locate the User-Defined section.

The User-Defined section is usually at the bottom of the Setting list.

	Sum	nary Info Build Settings Build Phases Build Rules				
tionViewer	Basic All Combined Levels	Q. A				
	Setting	A InspectionViewer				
tionViewer	Debug	No ‡				
donviewei	Release	Yes ‡				
	Strip Linked Product	No ‡				
	Targeted Device Family	iPhone ‡				
	▼Linking					
	Other Linker Flags					
	▼Packaging					
	Info.plist File	InspectionViewer/Info.plist				
	Product Name	InspectionViewer				
	Wrapper Extension	app				
	▼Search Paths					
	Always Search User Paths	No ‡				
	Framework Search Paths	/Users/Minos/Library/SDKs/ArcGIS/** /Library/Accela/MobileSDKs/**				
	Viser Header Search Paths	<multiple values=""></multiple>				
	Debug	build/Debug-iphoneos/usr/local/include				
	Release	build/Release-iphoneos/usr/local/include				
	▼LLVM GCC 4.2 - Code Generation					
	Generate Position-Dependent Code	No ‡				
	▼LLVM GCC 4.2 - Language					
	Precompile Prefix Header	Yes ‡				
	Prefix Header	InspectionViewer/Prefix.pch				
	▼User-Defined					
	ACCELA_APP_ID	12345678				
	ACCELA_APP_SECRET	alsdfjoi83413jn98ernej9				
	BUNDLE_IDENTIFIER	Accela.InspectionViewer				
	MODULE	Building				

4. Navigate to the **Info** tab, add a new item in the URL Types section, and fill in the URL Schemes field.

The URL Schemes value is used for the application to receive the callback URL of webbased oAuth flow.

Summary Info	Build	l Settings	Build Phases	Build Rules		
Custom iOS Target Properties						
Key	Type	Value				
Bundle identifier	String	\${BUNDLE	IDENTIFIER}			
InfoDictionary version	String	6.0				
Icon files (iOS 5)	Diction	(1 item)				
Bundle version	String	1.0				
Accela App ID	String	\${ACCELA	_APP_ID}			
Application requires iPhone environmer	Boolean	YES				
Module	String	\${MODULE	=}			
▶ Icon files	Array	(5 items)				
Icon already includes gloss effects	Boolean	YES				
Executable file	String	\${EXECUT	ABLE_NAME}			
Bundle display name	String	\${PRODUC	T_NAME}			
Bundle OS Type code	String	APPL				
Bundle creator OS Type code	String	77??				
Host	String	\${HOST}				
Application does not run in background	Boolean	NO				
Status bar is initially hidden	Boolean	YES				
Localization native development region	String	English				
Bundle name	String	\${PRODUCT_NAME}				
Document Types (0)						
Exported UTIs (0)						
Imported UTIs (0)						
VIRL Types (1)						
Vntitled						
Identifier None			URL Schemes	am\${ACCELA APP ID}		
No Icon None		T		Editor		
image None			Kole	Earton		
()						
 Additional url type properties (0) 						

Sample Projects

Accela SDK for iOS offers you with two sample projects:

- AgencyAppTest: It shows you all the features that you can integrate into an agency app via the SDK. It is located under the /Library/Accela/MobileSDKs/Samples/ directory.
- CitizenAppTest: It shows you all the features that you can integrate into a citizen app via the SDK. It is located under the /Library/Accela/MobileSDKs/Samples/ directory.