

IBM Navigator Mobile SDK Developer Guide

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Versions

1.0.0 (October 2015)

Overview

You can build high-quality mobile apps for the Apple iOS platforms with the IBM Navigator Mobile SDK.

Here are the main goals of the SDK:

Encapsulation of implementation detail	<p>The encapsulation of low-level implementation detail helps you focus on higher value work such as business logic or user experience.</p> <p>This low-level detail includes the following items:</p> <ul style="list-style-type: none">• Model layer for common Navigator objects• Networking layer to perform common tasks• Utilities for common functionalities
Small API	<p>The API provides the means for achieving a task in only one way so that the API can be kept as small as possible.</p>
Custom control	<p>You can inject custom logic to achieve greater control over system behavior.</p>

Here are some of the tasks that you can perform with the SDK:

- Connect and log in to an on-prem IBM Content Navigator server.
- View all documents and properties in a Navigator repository.
- Add and remove documents in a Navigator repository.
- Search for content in a Navigator repository.
- Use teamspace to manage content and users.
- Use favorites to quickly access content.
- Sync content to keep it up to date.

iOS

Package overview

The IBM Navigator Mobile SDK package includes the following components:

SDK	The SDK is written in Swift, but it can be integrated with either Objective-C or Swift code.
Sample project	<p>The sample Xcode project contains sectioned code that performs common tasks of the SDK such as login, browsing content, adding documents, deleting documents, and searches. To familiarize yourself with the mechanisms and features of the SDK, run the sample App and modify the code to see how the SDK can be called. Follow and review the comments in the sample application code as well.</p> <p>The sample Xcode project is also a working project that shows how the SDK can be embedded. It can be used as a starting point for any custom application.</p> <p>Important: The sample project is intended to show you how to use the SDK. It is not intended to be a tutorial on how to design your application. For example, it does not contain robust error handling and recovery.</p>
Reference documentation	The SDK provides reference documentation in a Docset format for each public interface class, method, and type.

SDK details

The SDK uses the Factory pattern and is organized into two sections:

Factory	Factory methods to obtain all the actual model objects and perform high-level tasks.
Model	The entire model layer that shows the protocols and interfaces that can be called.

Prerequisites

You are expected to have a working knowledge of IBM Content Navigator, Xcode, and the Swift or Objective-C programming languages.

Here are the prerequisites for using the SDK:

- An IBM Content Navigator server that runs IBM Content Navigator 2.0.3.5 or later
- An IBM FileNet Content Manager server that is set up with IBM Content Navigator
- An Apple Mac that runs OS X 10.10 or later with Xcode 6.4 only. You can still compile with Xcode 6.4 and produce a binary that runs with iOS9.
- The IBM Navigator Mobile SDK 1.0.0 or later package

Getting started with the SDK

You will need to first obtain the SDK from fix central: <http://www-933.ibm.com/support/fixcentral/>

- Log in to Fix Central.
- From the Product Group list, select Enterprise Content Management.
- From the Select from Enterprise Content Manager list, select Enterprise Content Management Mobile.
- From the Installed Version list, select 1.0.0.
- From the Platform list, select iOS and click Continue.
- Select Browse for fixes and click Continue.
- Select the check box next to tool: IBM_Navigator_Mobile-1.0.0-SDK and click Continue.
- Select your preferred download option in the Select download options area and click Continue.
- Click Download now to download the package.

To use the IBM Navigator Mobile SDK, you must integrate it with an existing or new Xcode project. Typically, your use of the SDK begins with the factory class `IBMECMFactory`.

To integrate the SDK with an Xcode project:

1. Put the SDK binary `IBMECMCore.framework` file and the Xcode project in the same folder. These instructions use the `SampleApp` Xcode project as an example.

▶ IBMECMCore.framework	Aug 26, 2015, 6:14 PM
▶ SampleApp	Sep 10, 2015, 2:52 PM

2. Use the podfile command to install the pods that are required by the SDK and to create the workspace to manage your app [along with the pods]. For more information about installing pods, see the CocoaPods Getting Started guide at <https://guides.cocoapods.org/>.

```
|platform :ios, '8.0'

def cloudkit_pods
  pod 'Alamofire', '2.0.0'
  pod 'Mantle', '2.0.2'
  pod 'CocoaLumberjack', '1.9.2'
  pod 'MTLManagedObjectAdapter', '1.0.0'
end

xcodeproj 'SampleApp/SampleApp.xcodeproj'
target : 'SampleApp' do
  cloudkit_pods
  use_frameworks!
  xcodeproj 'SampleApp/SampleApp.xcodeproj'
end

workspace 'mobileIBMECMCloudAppWorkspace'
```

3. Open the `mobileIBMECMCloudAppWorkspace.xcworkspace` workspace and import the SDK binary files to Targets->SampleApp->Build Phase->Linked Framework and Libraries

▼ Link Binary With Libraries (2 items)		×
Name	Status	
IBMECMCore.framework	Required ⇅	
Pods_SampleApp.framework	Optional ⇅	
+ -		Drag to reorder frameworks

4. Import the SDK binary files to Targets-> SampleApp ->General->Embedded Binaries.



Now, you can use IBMECMCore to develop an app in the `sampleApp` Xcode project.

FAQ

Why should I use the `IBMECMFactory` rather than creating my own objects?

The IBM Navigator Mobile SDK encapsulates and manages the object lifecycle. In order to create managed objects, you must use the provided object factory.

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