

IBM Navigator Mobile SDK Developer Guide

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Overview

You can build high-quality mobile Apps for the Apple iOS platform with the IBM Navigator Mobile SDK. This release supports both IBM FileNet Manager (FileNet P8) and Content Manager 8 (CM8) repositories.

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 functions
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 add custom logic to achieve greater control over system behavior.</p>

You can complete the following tasks by using the SDK:

- Connect and log in to an on-premises IBM Content Navigator server.
- Retrieve repositories for a desktop.
- View all documents and properties in a Content Navigator repository.
- Add and remove documents in a Content Navigator repository.
- Search for content in a Content Navigator repository.
- Use search templates to search for content in a Content Navigator repository.
- Search Templates, add a document, check in document, and edit properties with External Data Services (EDS).
- Use entry templates to add or check in a document, and create a folder.
- Use teamspaces to manage content and users.
- Use favorites to quickly access content.
- Synchronize content to keep it up to date.

iOS

Package over view

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 Doc-set 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.

SDK updates

Following is a list of updates in this release.

Added	<ul style="list-style-type: none">Added an API to indicate whether or not downloading documents on mobile devices is allowed for a desktop
Updated	<ul style="list-style-type: none">All source, test, and example code to adapt to the API changes

Prerequisites

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

The prerequisites for using the SDK include the following:

- An IBM Content Navigator server that runs IBM Content Navigator 3.0.0 or later
- An IBM FileNet Content Manager server or an IBM Content Manager server that is set up with IBM Content Navigator
- A Mac that runs OS X 10.15.6 or later with Xcode 12.2
- The IBM Navigator Mobile SDK 3.4.0.4

Downloading the SDK

To download the SDK, complete the following steps:

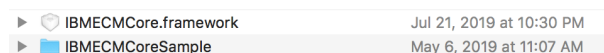
1. Log in to Fix Central at <http://www-933.ibm.com/support/fixcentral/>.
2. On the **Select Product** tab, from the **Product Group** list, select **Enterprise Content Management**.
3. From the **Select from Enterprise Content Manager** list, select **Enterprise Content Management Mobile**.
4. From the **Installed Version** list, select **3.4.0.4**.
5. From the **Platform** list, select **iOS** and click **Continue**.
6. Select **Browse** for fixes and click **Continue**.
7. Select the check box next to tool: `IBM_Navigator_Mobile-3.4.0.4-SDK` and click **Continue**.
8. Select your preferred download option in the **Select download** options area and click **Continue**.
9. Click **Download** to download the package.

Getting started with the SDK

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 `IBMECMCoreSample` Xcode project as an example.



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/>.

2. Open the `navigatorMobileSDK.xcworkspace` workspace and import the SDK binary files to Targets -> `IBMECMCoreSampleApp` -> Build Phase -> Link Binary With Libraries

▼ Link Binary With Libraries (3 items)		×
Name	Status	
QuickLook.framework	Required ⬇	
IBMECMCore.framework	Required ⬇	
Pods_IBMECMCoreSampleApp.framework	Required ⬇	
+ — Drag to reorder frameworks		

3. Import the SDK binary files to Targets -> IBMECMCoreSampleApp -> General -> Embedded Binaries.

▼ Embedded Binaries
IBMECMCore.framework ...in ../..
+ —

Now, you can use IBMECMCore to develop an App in the IBMECMCoreSample 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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