# 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	The encapsulation of low-level implementation detail helps you focus on higher value work such as business logic or user experience.  This low-level detail includes the following items:  Model layer for common Navigator objects Networking layer to perform common tasks Utilities for common functions	
Small API	The API provides the means for achieving a task in only one way so that the API can be kept as small as possible.	
Custom control	You can inject custom logic to achieve greater control over system behavior.	

The following tasks that you can perform with the SDK:

- Connect and log in to an on-premises IBM Content Navigator server.
- · Retrieve repositories of a desktop.
- 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 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	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.  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.  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.
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

There is a set of updates in this release.

Added	•	Added API to retrieve repositories of a desktop
	•	Added APIs to get current and default repositories of a desktop
	•	Added APIs to indicate if a repository is connected and if teamspace feature is enabled for a repository

Updated	•	All source, test, and example code to adapt to the API changes

## **Prerequisites**

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

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 or an IBM Content Manager server that is set up with IBM Content Navigator
- An Apple Mac that runs OS X 10.13.6 or later with Xcode 10.1
- The IBM Navigator Mobile SDK 3.4.0

## Downloading the SDK

To obtain the SDK:

- 1. Log in to Fix Central at <a href="http://www-933.ibm.com/support/fixcentral/">http://www-933.ibm.com/support/fixcentral/</a>.
- 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.
- 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-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 <code>IBMECMFactory</code>.

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



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



Now, you can use IBMECMCore to develop an App in the  ${\tt IBMECMCoreSample}$  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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