



Mobile Hub Helper

High level view of the aws-mobilehub-helper-ios classes and their responsibilities

Mobile Hub

The name of a system to generate a set of code (named MySampleApp) by web based configuration entry in the Mobile Hub console. Much of the generated code uses functionality via the aws-mobilehub-helper-ios singletons, but some of the code generated uses other AWS Services directly (DynamoDB and CognitoSync)

aws-mobilehub-helper-ios

Classes in Obj-C that improve the usability of the interface with aws-ios-sdk. In particular it can produce a set of singletons that manage various functions outlined below (with the name of the singleton). The primary simplification offered by this class is the simplifications of permissions granting offered by the user sign in functions to grant access to the other services. Also the configuration console creates a WORKING IAM configuration which is a real help with building your own. The classes are evolving, and the naming used by AWS is inconsistent (user data storage, user files, etc).

User Data Storage

Name in the documentation and sample app for User File Storage (a subclass of Content Delivery) and Cognito Sync (no mobile hub code)

DynamoDB

Just configuration via console, no mobile hub helper code just DynamoDB singleton

User Sign In

AWSIdentityManager
and related classes AWSIdentityManager.defaultIdentityManager()

App Analytics

AWSMobileAnalytics.defaultMobileAnalytics()

Cloud Logic

AWSCloudLogic.defaultCloudLogic()

Push Notifications

AWSPushManager.defaultPushManager

App Content Delivery

AWSContentManager.defaultContentManager()

Cognito Sync

Demonstrated in user settings demo
AWSCognito.defaultCognito()

NoSQL Database

AWS DynamoDBObjectMapper.defaultDynamoDBObjectMapper()

AWSFacebookSignInProvider

AWSGoogleSignInProvider

AWSCognitoUserToolsSignInProvider

AWSSAMLSignInProvider

AWSSignInProvider(protocol)

User Files AKA User Data Storage
AWSUserFileManager.defaultUserFileManager()
Inherits from AWSContentManager



Why use the Mobile Hub

- MH demonstrates the implementation of many commonly used mobile application features and functions in Swift, Objective-C and Android (java)
- When you configure MH it downloads a sample app (MySampleApp)
- But more than that it configures the database, cognito identity, authentication, S3, Lambda, facilities and MOST IMPORTANTLY the IAM roles and policies to use these facilities. This provides a sample and clarifies some of the very confusing parts of policy creation
- The code makes use of an SDK that wraps much of the AWS-IOS-SDK, which is available open source and called the aws-mobilehub-helper-ios. This SDK is better designed and documented than the IOS SDK, and much easier to use. And the source is available so you can figure out problems easier.
- Some of the code makes use of other AWS services directly through the aws-ios-sdk, but mostly these are better designed, better documented interfaces (DynamoDB), or just simpler (AWSCognito for sync)
- The code generated and the aws-mobilehub-helper-ios libraries use the latest version of the aws-ios-sdk, making the MySampleApp unique because all other AWS documentation and examples are based on older versions currently.