<u>Upgrade Mobile App Performance</u> (MAP) SDK - version 20.32 and above for iOS

Sample Project: https://ac.akamai.com/docs/DOC-75965 | External Link

Prerequisites:

- An iOS app using the MAP SDK with an associated API/license key. If you are trying to
 integrate the MAP SDK for the first time, please check our article here on how to get
 started.
- Familiarity with MAP SDK features and configurations. For more information on that, see the MAP SDK Configuration Guide.

To upgrade to MAP 20.32 and above, please follow the instructions in this guide.

How you upgrade the SDK depends on how you added it.

• CocoaPods - If you have added the SDK through CocoaPods, change your podfile to point to the new pod. Change **AkamaiMAP** to **Aka-MAP**. Then run **pod update**.

```
target 'MAP_Unified_OC' do
   use_frameworks!

pod 'Aka-MAP'
end
```

 If you added the SDK through a ZIP file, first remove the old MAP SDK, then add the latest frameworks manually. Note that two frameworks are now required: AkaMap.framework and AkaCommon.framework.

Deprecated Methods Deprecated methods should be removed and updated with the methods explained below.

License/API key:

MAP license through code - Manual addition of a license was removed. Use your app Plist to add your API key.

MAP API key through Plist: Update the Plist as follows - vocsdk becomes map

license becomes api_key

Update -

▼ com.akamai	\$	Dictionary	(2 items)
▼ map		Dictionary	(2 items)
api_key		String	abcd1234
▼ segments		Array	(1 item)
Item 0		String	images
▼ mpulse		Dictionary	(1 item)
api_key		String	abcd1234

NOTE: You can continue to use the same license and features.

Initialization

```
Deprecated - VocServiceFactory.createAkaWebAccelerator(with: self, delegateQueue:
OperationQueue.main, options: nil)
Update - AkaCommon.configure().
```

Methods and Interface:

```
Deprecated: @interface VocServiceFactory : NSObject
```

Updated:@interface AkaMap : NSObject

Deprecated:+ (void)setupSessionConfiguration:(nonnull NSURLSessionConfiguration
*)sessionConfig;

Updated: - (void)interceptSessionsWithConfiguration:(nonnull

NSURLSessionConfiguration *)sessionConfig; // now called on [AkaCommon shared]

Callbacks:

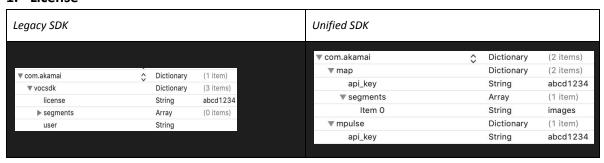
Below Callback methods are deprecated

```
- (void) vocService:(nonnull id<VocService>)vocService didBecomeNotRegistered:(nonnull NSDictionary
*)info;
- (void) vocService:(nonnull id<VocService>)vocService didFailToRegister:(nonnull NSError *)error;
- (void) vocService:(nonnull id<VocService>)vocService didRegister:(nonnull NSDictionary* )info;
- (void) vocService:(nonnull id<VocService>)vocService didInitialize:(nonnull NSDictionary *)info;
- (void) vocService:(nonnull id<VocService>)vocService didInitialize:(nonnull NSDictionary *)info;
- (void) clearCache:(nullable void (^)(NSError * __nullable))completion AKAMAP_DEPRECATED;
```

Comparison of Legacy vs Unified SDK

In the following steps, the column on the left shows the existing code. Replace this code with the code in the column on the right.

1. License



2. Header file

You need to add AkaCommon and AkaMap header file.

Legacy SDK	Unified SDK
<pre>#import <vocsdk vocsdk.h=""></vocsdk></pre>	<pre>#import <akacommon akacommon.h=""> #import <akamap akamap.h=""></akamap></akacommon></pre>

3. Initialization

AkaCommon.configure - initializes MAP SDK

```
Legacy SDK
                                              Unified SDK
Swift:
                                              Swift:
                                              AkaCommon.configure()
akaService =
VocServiceFactory.createAkaWebAccelerator(
with: self, delegateQueue:
                                              Objective-C:
OperationQueue.main, options: nil)
                                              [AkaCommon configure];
Objective-C:
self.akaService = [VocServiceFactory
createAkaWebAcceleratorWithDelegate:self
delegateQueue:[NSOperationQueue mainQueue]
options:nil error:&error];
```

4. Debug log

Logging from MAP has not changed. Some additional logs are available via AkaCommon.

Legacy SDK	Unified SDK
<pre>Swift: self.akaService.setDebugConsoleLog(true)</pre>	<pre>Swift: self.akaService.setDebugConsoleLog(true) AkaCommon.shared().debugConsoleEnabled =</pre>
<pre>Objective-C: [self.akaService setDebugConsoleLog:true];</pre>	true
[<pre>Objective-C: [self.akaService setDebugConsoleLog:true]; [AkaCommon shared].debugConsoleEnabled = true;</pre>

5. Calling methods

Call MAP methods/API through AkaMap or AkaCommon shared instance:

Swift:

AkaMap.shared()
AkaCommon.shared()

Objective-C:

[AkaMap shared]; [AkaCommon shared];

Use of Interceptor

By default, MAP intercepts traffic going from NSURLSession. Hence, for this scenario you don't need to use a wrapper to intercept traffic going through NSURLSession.

NSURLSession may use either the shared app session or a custom configuration. The SDK automatically accelerates the shared session, so a standard NSURLSession is accelerated by default:

Standard NSURLSession - Objective-C

```
NSURLSession *session = [NSURLSession sharedSession];
NSURL *requestURL = [NSURL URLwithString:@"http://www.akamai.com/"];
[[session dataTaskWithURL:requestURL] resume];
```

Alternatively, an NSURLSession may be created with a custom configuration. The custom configuration must be passed into the SDK for setup. Pass the configuration into the VocServiceFactory call setupSessionConfiguration:

Custom NSURLSession - Objective-C

```
NSURLSessionConfiguration *sessionConfig = [NSURLSessionConfiguration
defaultSessionConfiguration];
// ... modify sessionConfig as required by the app ...
[[AkaCommon shared] interceptSessionsWithConfiguration:sessionConfig];
NSURLSession *session = [NSURLSession sessionWithConfiguration:sessionConfig];
NSURL *requestURL = [NSURL URLwithString :@"http://www.akamai.com/"];
[[session dataTaskWithURL:requestURL] resume];
```

Standard NSURLSession - Swift

```
let url = URL(string: "http://www.akamai.com/")
            let task = URLSession.shared.dataTask(with: url!) {(data, response, error) in
}
task.resume()
```

Custom NSURLSession-Swift

```
let url = URL(string: "http://www.akamai.com/")
let sessionConfig = URLSessionConfiguration.default
AkaCommon.shared().interceptSessions(with: sessionConfig)
let session = URLSession.init(configuration: sessionConfig)
let task = session.dataTask(with: url!) {(data, response, error) in
     }
task.resume()
```

Alamofire - Swift

```
let sessionConfig: URLSessionConfiguration = URLSessionConfiguration.default
AkaCommon.shared().interceptSessions(with: sessionConfig)
let sessionManager = Alamofire.SessionManager(configuration: sessionConfig)
let request = sessionManager.request("url", method: .get).responseJSON { response in
    let _ = sessionManager
    debugPrint(response)
}
```

Moya - Swift

```
static let provider: MoyaProvider<AppApi> = {
let sessionConfig = URLSessionConfiguration.default
AkaCommon.shared().interceptSessions(with: sessionConfig)
```

```
sessionConfig.httpAdditionalHeaders = Manager.defaultHTTPHeaders
let manager = Manager(configuration: sessionConfig)
manager.startRequestsImmediately = false
let provider = MoyaProvider<AppApi>(manager: manager, plugins: [NetworkLoggerPlugin(verbose: true)])
return provider
}()
```

AFNetworking - Objective-C

```
NSURLSessionConfiguration *configuration = [NSURLSessionConfiguration
defaultSessionConfiguration];
[[AkaCommon shared] interceptSessionsWithConfiguration:sessionConfig];
AFURLSessionManager *manager = [[AFURLSessionManager alloc] initWithSessionConfiguration:
configuration];
NSURL *URL = [NSURL URLWithString:@"url"];
NSURLRequest *request = [NSURLRequest requestWithURL:URL];
NSURLSessionDataTask *dataTask = [manager dataTaskWithRequest:request
completionHandler:^(NSURLResponse *response, id responseObject, NSError *error) {
if (error) {
NSLog(@"Error: %@", error);
} else {
NSLog(@"%@ %@", response, responseObject);
}
}];
[dataTask resume];
```

AFNetworking - Swift

Alamofire - Swift

```
let mapSessionConfig: URLSessionConfiguration = URLSessionConfiguration.default
AkaCommon.shared().interceptSessions(with: sessionConfig)
let apiURL = URL(string: "url")!
let sessionManager = Alamofire.SessionManager(configuration: mapSessionConfig)
_ = sessionManager.request(apiURL, method: .get).responseJSON
{
```

```
response in
  let _ = sessionManager// retain
  if let data = response.data, let utf8Text = String(data: data, encoding: .utf8) {
    print("Data: \(utf8Text)")
  }
}
debugPrint(request)
```

SDWeblmage Objective-C

```
NSURLSessionConfiguration *sessionConfig = [NSURLSessionConfiguration
defaultSessionConfiguration];
[[AkaCommon shared] interceptSessionsWithConfiguration:sessionConfig];
[[SDWebImageDownloader sharedDownloader] createNewSessionWithConfiguration:sessionConfig];
[self.imageViewObj sd_setImageWithURL:[NSURL URLWithString:@"url"] placeholderImage:[UIImage imageNamed:@"placeholder"]];
```

SDWeblmage Swift 4.x

```
let mapSessionConfig: URLSessionConfiguration = URLSessionConfiguration.default
AkaCommon.shared().interceptSessions(with: sessionConfig)
SDWebImageDownloader.shared().createNewSession(with: mapSessionConfig)
self.libraryImageView.sd_setImage(with: URL(string: "url"), placeholderImage: UIImage(named: "placeholder"))
```

SDWeblmage Swift 5.x

PINRemoteImage Swift

```
let mapSessionConfig: URLSessionConfiguration = URLSessionConfiguration.default
AkaCommon.shared().interceptSessions(with: sessionConfig)
self.libraryImageView.pin_setImage(from: URL(string: "url"))
```

Kingfisher Swift

```
let mapSessionConfig: URLSessionConfiguration = URLSessionConfiguration.default
AkaCommon.shared().interceptSessions(with: sessionConfig)
let downloader = ImageDownloader(name: "KFDownloader")
downloader.sessionConfiguration = mapSessionConfig
```

```
self.libraryImageView.kf.setImage(with: URL(string: "url"), options:
[.downloader(downloader)])
```

Alamofire Image Swift