**“How to” create an analytics provider plugin?**

This document describes how to create a new analytics provider in Zapp and on the client side.

**Step 1 - Zapp Side:**

In Zapp, you can see all the apps plugins which are configured under [the “Plugins” menu](https://zapp.applicaster.com/admin/plugins).

Each plugin contains a manifest file that contains all the configurations the plugin needs.

For Example:

|  |
| --- |
| {  "api": {  "class\_name": "APAnalyticsProviderAgof"  },  "author\_name": "Alex Zchut",  "author\_email": "a.zchut@applicaster.com",  "manifest\_version": "0.2.0",  "name": "AnalyticsProviderAgof",  "description": "Agof Analytics wrapper",  "type": "**analytics**",  "platform": "ios",  "dependency\_repository\_url": [],  "dependency\_name": "ZappAnalyticsPlugins/Agof",  "dependency\_version": "0.2.0",  "**custom\_configuration\_fields**": [  {  "type": "text",  "key": "offerIdentifier"  }  ] } |

In order to create a new plugin, please read about [zappifest command](https://github.com/applicaster/zappifest).

Once you create a plugin, in order to test your work, have a look at the manifest and see that:

"type": "analytics",

"platform": "ios",  
And “Custom\_configuration\_fields” contains the specific parameters that should be configured by the app for your plugin.

**Step 2 - iOS Side:**

* Create a new provider for the analytics plugin under <https://github.com/applicaster/ZappAnalyticsPlugins-iOS> in a new folder.
* Create a new provider on swift or on Objective C language and implement all the relevant methods.

Look at [Flurry](https://github.com/applicaster/ZappAnalyticsPlugins-iOS/blob/master/Flurry/APAnalyticsProviderFlurry/Classes/APAnalyticsProviderFlurry.swift) to see how swift provider is implemented.

Look at [Mixpanel](https://github.com/applicaster/ZappAnalyticsPlugins-iOS/tree/master/Mixpanel/APAnalyticsProviderMixpanel/Classes) in order to see how Objective C provider is implemented.

**Step 3 - Podspec and Basic Providers:**

In this [file](https://github.com/applicaster/ZappAnalyticsPlugins-iOS/blob/master/ZappAnalyticsPlugins.podspec), we need to add a section which contains the new provider structure as illustrated below:

|  |
| --- |
| s.subspec 'GoogleAnalytics' do |ga|  ga.public\_header\_files = 'GoogleAnalytics/\*\*/\*.h'  ga.source\_files = 'GoogleAnalytics/\*\*/\*.{h,m,swift}'  ga.frameworks = 'AdSupport', 'CoreData', 'SystemConfiguration'  ga.libraries = 'sqlite3.0', 'z'  ga.resources = [  "GoogleAnalytics/\*\*/\*.xcassets",  "GoogleAnalytics/\*\*/\*.storyboard",  "GoogleAnalytics/\*\*/\*.xib",  "GoogleAnalytics/\*\*/\*.png"]  ga.xcconfig = { 'CLANG\_ALLOW\_NON\_MODULAR\_INCLUDES\_IN\_FRAMEWORK\_MODULES' => 'YES',  'OTHER\_LDFLAGS' => '$(inherited) -l"GoogleAnalytics"',  'LIBRARY\_SEARCH\_PATHS' => '$(inherited) "${PODS\_ROOT}"/\*\*',  'ENABLE\_BITCODE' => 'NO'  }  ga.dependency 'GoogleAnalytics', '~> 3.14.0'  end |

If you want to add it as a basic provider (one that is included by default in new builds across customers) you need to add it here:

|  |
| --- |
| s.subspec 'Basic' do |basic|  basic.dependency 'ZappPlugins'  basic.dependency 'ApplicasterSDK'  basic.dependency 'ZappAnalyticsPlugins/GoogleAnalytics'  basic.dependency 'ZappAnalyticsPlugins/Mixpanel'  basic.dependency 'ZappAnalyticsPlugins/Flurry'  basic.dependency 'ZappAnalyticsPlugins/ComScore'  basic.dependency 'ZappAnalyticsPlugins/Akamai'  basic.dependency 'ZappAnalyticsPlugins/Facebook'  end |

Only in this situation (basic provider), add it on [APAnalytics](https://github.com/applicaster/ApplicasterSDK-iOS/blob/master/applicasterSDK/Classes/Analytics/Core/APAnalytics.m) file in createAnalyticsProvidersArray method with your new provider class name.

|  |
| --- |
| //add default providers -------------  //add GA  [self addDefaultAnalyticsProviderWithClassName:@"APAnalyticsProviderGoogleAnalytics"]; |

**Step 4 - Add new plugin to Zapp:**

Add the new plugin to the relevant app and configure its keys.

