

# Xamarin.Android Plugin Migration Guide

Microsoft is replacing Xamarin with .Net MAUI. Starting with Alchemer Digital SDK version 6.7, new features will no longer be offered for the Xamarin plugin. You can reference our MAUI documentation [here](#).

This guide is intended for developers who have been using the Alchemer Mobile (Apptentive) Xamarin Android Plugin and are migrating to 6.0.0. For comprehensive documentation on the Xamarin Android Plugin, [click here](#).

## Prerequisites

Please make sure you have added the following NuGet packages:

- [GoogleGson](#)
- [Xamarin.AndroidX.Legacy.Support.V4](#)
- [Xamarin Kotlin StdLib](#)
- [Xamarin.Google.Android.Play.Core](#)
- [Xamarin.AndroidX.Fragment](#)
- [Xamarin.AndroidX.Fragment.Ktx](#)
- [Xamarin.AndroidX.AppCompat](#)
- [Xamarin.AndroidX.Lifecycle.Common](#)
- [Xamarin.AndroidX.Lifecycle.LiveData](#)
- [Xamarin.Google.Android.Material](#)
- [Xamarin.GooglePlayServices.Base](#)

## Update the Alchemer Mobile (formerly Apptentive) Dependencies

Firstly, remove the existing Apptentive.Android nuget package. Then install the following Apptentive Nuget package:

- [Apptentive.Android](#)

### Updating Subproject (If Applicable)

To update the Alchemer Mobile (Apptentive) dependency as a subproject, start by removing the old Apptentive subproject, and then clone or download the code from <https://github.com/apptentive/apptentive-xamarin-android>, and add all of the modules to your project.

## Update `Using` Statements

Replace `using ApptentiveSDK.Android` with `using ApptentiveSDK` .

## Update Method Calls

For all method calls which are invoked, instead of calling methods only with `Apptentive` , access them like this for example:

```
ApptentiveSDK.Apptentive.Engage();
```

## Implementing `ApptentiveActivityInfo`

Wherever Notes or Love Dialog are engaged, be sure to implement the Activity as `IApptentiveActivityInfo` and register the activity to the SDK. Refer to the [integration docs](#) for details.

Please set `android:enableOnBackPressedCallback="false"` if needed. This allows the confirmation dialog to be shown when the user exits the survey when the back button is pressed.

## Register

The `register` method needs to be updated since it no longer takes a context, but now requires a `ApptentiveConfiguration` object:

```
var configuration = new ApptentiveConfiguration("Your Apptentive Key", "Your Apptentive Signature");
ApptentiveSDK.Apptentive.Register(this,configuration);
```

## Log Level

In order to set the log level, it will be done on the `ApptentiveConfiguration` object before being passed to the register method. However, you must add another `Using` statement to access the log level. Like so:

```
using ApptentiveLogLevel = Apptentive.Com.Android.Util.LogLevel;

var configuration = new ApptentiveConfiguration("Your Apptentive Key", "Your Apptentive Signature");
configuration.LogLevel = ApptentiveLogLevel.Verbose;
```

## Engage

Engage method calls no longer require the current context. Refer to the [integration docs](#) for a full explanation on how to implement this method.

```
//Legacy
Apptentive.Engage(this, "event");

//New
ApptentiveSDK.Apptentive.Engage("event");
```

## Showing Message Center

When showing Message Center you do not need to add a Activity context as an argument.

```
//Legacy
Apptentive.ShowMessageCenter(this);

//New
ApptentiveSDK.Apptentive.ShowMessageCenter();
```

## Custom Data

When adding custom data with bool, int, double, or long be sure to use the `Java.Lang` cast.

Example:

```
//Example int
ApptentiveSDK.Apptentive.AddCustomDeviceData(deviceIntKey.Text, (Java.Lang.Number)intValue);

//Example bool
ApptentiveSDK.Apptentive.AddCustomPersonData(personBoolKey.Text, (Java.Lang.Boolean)personBoolValue
);
```

## Proguard Rules

Be sure to add the following ProGuard rules:

```
# WORKING PROGUARD RULES:
-keep class apptentive.com.android.feedback.survey.model.* { *; }
-keep class com.google.android.play.core.review.** { *; }
-keep class com.apptentive.android.sdk.** { *; }
-keep class apptentive.com.android.feedback.model.** { *; }
-keep class apptentive.com.android.feedback.engagement.interactions.InteractionData { *; }
-keep class apptentive.com.android.encryption.** { *; }

# Gson library
-keepattributes Signature
-keepattributes *Annotation*
-dontwarn sun.misc.**
-keep class com.google.gson.** { *; }
-keep class org.apache.commons.io.** { *; }
-keep class org.apache.commons.logging.** { *; }
```

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