Mobile mediation

Integration

10.07.2024



Mobile mediation. Integration. Version 2.0 Document build date: 10.07.2024 This volume is a part of Yandex technical documentation. © 2008—2024 Yandex LLC. All rights reserved.

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Adding the Yandex Mobile Ads Flutter plugin



Warning:

This is an archived version of the documentation. Actual documentation for all platforms can be found here.

About the plugin

Flutter is a popular technology for creating mobile apps. Developers use it to write single code that can be run on different operating systems, including Android and iOS.

Now, it will be easier for you to monetize Android and iOS apps created with Flutter. All our partners in the Yandex Advertising Network can now use the plugin to enable Yandex-based monetization in their apps.

This plugin supports loading and display of the following ad types:

- Banner ads
- Interstitial ads
- Rewarded ads.

Requirements

- Flutter 2.5.0 or higher.
- Android 4.1 or higher.

Video ads are selected for devices with Android 5.0 or higher.

• iOS 12.0 or higher.

Check the additional steps to ensure that iOS 14 (or higher) works properly.

Latest Xcode version with enabled command-line tools.

• Registering an account in the Yandex Advertising Network.

Adding the plugin to your project

Install the Yandex Mobile Ads Flutter plugin in your project. From the root of the project, call the command:

flutter pub add yandex_mobileads

Once the plugin is added, you'll see the following line with a dependency in the pubspec.yaml file:

```
dependencies:
    yandex_mobileads: ^X.X.X
```

X.X.X: The plugin's current version number.

Configuring for specific platforms

Android

1. In the app/build.gradle file of your app's Android module, add:

```
dependencies {
    // ...
    implementation 'com.yandex.android:mobileads-mediation:5.10.0.0'
}
```

2. In the build.gradle file of your app's Android module, add:

```
// IronSource
maven {
    url 'https://android-sdk.is.com/'
}
// Pangle
maven {
    url 'https://artifact.bytedance.com/repository/pangle'
}
```

```
// Tapjoy
maven {
    url "https://sdk.tapjoy.com/"
}
// Mintegral
maven {
    url "https://dl-maven-android.mintegral.com/repository/mbridge_android_sdk_oversea"
}
```

3. The new permission com.google.android.gms.permission.AD_ID is already added in the Yandex Mobile Ads SDK. It enables you to use AD_ID to select relevant ads. You can delete the permission if necessary.

Learn more about the permission and ad ID

The ad ID is a unique identifier provided by Google Play services for displaying ads to users who opt in to personalized ads. Users can opt out of ad personalization or reset their ID in the settings. In this case, advertising networks won't be able to use the ID to select relevant ads for the user.

How to delete the permission

If some policies (such as Google Play's Families Policy) do not allow the use of ad IDs, you can delete the permission from the AndroidManifest.xml file.

```
<uses-permission android:name="com.google.android.gms.permission.AD_ID" tools:node="remove"/>
```

iOS

In Podlist of your app's iOS module, add:

```
pod 'YandexMobileAdsMediation', '5.9.0'
```

 Mobile Ads SDK supports tracking of app installations using the SKAdNetwork framework. Installation tracking works for any device, even if no access to IDFA was granted.

To enable this functionality, add the IDs of the supported ad networks to the Info.plist file of your app's iOS module.

```
<key>SKAdNetworkItems</key>
<array>
    <dict>
        <!-- Yandex Ads -->
        <key>SKAdNetworkIdentifier</key>
        <string>zq4921623r.skadnetwork</string>
    </dict>
    <dict>
<!-- AdMob -->
        <key>SKAdNetworkIdentifier</key>
        <string>cstr6suwn9.skadnetwork</string>
    </dict>
    <dict>
<!-- MyTarget -->
        <key>SKAdNetworkIdentifier</key>
        <string>n9x2a789qt.skadnetwork</string>
    </dict>
    <dict>
        <!-- MyTarget -->
        <key>SKAdNetworkIdentifier</key>
        <string>r26jy69rpl.skadnetwork</string>
    </dict>
    <dict>
<!-- Start.io -->
        <key>SKAdNetworkIdentifier</key>
        <string>5l3tpt7t6e.skadnetwork</string>
    </dict>
    <dict>
        <!-- UnityAds -->
        <kev>SKAdNetworkTdentifier</kev>
        <string>4dzt52r2t5.skadnetwork</string>
    </dict>
    <dict>
<!-- IronSource -->
        <key>SKAdNetworkIdentifier</key>
        <string>su67r6k2v3.skadnetwork</string>
    </dict>
    <dict>
        <!-- Applovin -->
        <key>SKAdNetworkIdentifier</key>
        <string>ludvb6z3bs.skadnetwork</string>
    </dict>
    <dict>
        <!-- Mintegral -->
        <key>SKAdNetworkIdentifier</key>
<string>KBD757YWX3.skadnetwork</string>
    </dict>
</array>
```

For more information, see Configuring a Source App in the Apple documentation.

Initializing the library

In the initState of your app's widget, add the line: MobileAds.initialize();.

```
See also
Enabling the plugin for YAN
COPPA
GDPR
```

Ad formats

Enabling banner ads



Warning:

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A banner is a configurable ad that covers part of the screen and reacts to clicks.

Enabling a banner

1. Add the import:

import 'package:yandex_mobileads/mobile_ads.dart';

2. Create an object of the BannerAd class in the Builder or initState of the widget hosting the banner:

```
final banner = BannerAd(
   adUnitId: 'R-M-XXXXXX-Y',
   // Flex-size
   adSize: AdSize.flexible(width: screenWidth, height: bannerHeight),
   // Sticky-size
   adSize: AdSize.sticky(width: screenWidth),
   adRequest: AdRequest(),
   onAdLoaded: () {
      /* Do something */
   },
   onAdFailedToLoad: (error) {
      /* Do something */
   },
   );
```

3. In the build method of your widget, specify the AdWidget that will accept the new BannerAd object:

```
AdWidget(bannerAd: banner)
```

 The ad will load automatically. If necessary, you can call the load method of the banner object after you call build for the first time.

Example of working with banner ads

The code demonstrates how to create and configure BannerAd objects:

```
import 'package:yandex_mobileads/mobile_ads.dart';
// ...
class BannerAdPage extends StatelessWidget {
  final banner = BannerAd(
    adUnitId: 'demo-banner-yandex',
    adSize: AdSize.sticky(width: screenWidth),
    adRequest: AdRequest(),
    onAdLoaded: () {
        /* Do something */
    },
    onAdFailedToLoad: (error) {
        /* Do something */
    },
    );
```

```
@override
Widget build(BuildContext context) {
   return Scaffold(
       body: Align(
           alignment: Alignment.bottomCenter,
           child: AdWidget(bannerAd: banner),
       ),
      );
   }
}
```

If an ad is integrated this way, the banner appears after the app starts:

```
Oneparop
11:35 AM

Sticky banner ad

Network

Yandex

Logs
Load ad
callback: banner ad loaded
Callback: banner ad loaded
Freityyandexcu PEXNAM
SHAREKC.HEABBUKKIMOCTЬ
```

To see how the banner ad will be displayed in the app, use a demo AdUnitId:

demo-banner-yandex

Enabling interstitial ads

Warning:

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An interstitial ad is a configurable full-screen ad that reacts to clicks.

Creating and displaying InterstitialAd

1. Add the import:

import 'package:yandex_mobileads/mobile_ads.dart';

Create an InterstitialAd class object. You can only use the asynchronous method to create the object:

```
final ad = await InterstitialAd.create(
   adUnitId: 'R-M-XXXXX-Y',
   onAdLoaded: () {
      /* Do something */
   },
```

```
onAdFailedToLoad: (error) {
    /* Do something */
},
);
```

3. After you create the InterstitialAd class object, load the ads. To load an ad, use the load method that accepts an optional AdRequest object.

```
await ad.load(adRequest: AdRequest());
```

You can wait for your ad to load asynchronously using the await keyword. If there's an error, the onAdFailedToLoad method is called to terminate waiting.

4. Interstitial ads are loaded in the background immediately after the load method is called. To display an interstitial ad, call the show method:

```
await ad.show();
```

You can wait for the ad to start displaying asynchronously.

5. Alternatively, you can use the waitForDismiss asynchronous method to wait until the end of ad serving:

```
await ad.waitForDismiss();
```

Example of working with interstitial ads

The code demonstrates how to create and configure an InterstitialAd object, and how to create and display an interstitial ad:

If an ad is integrated this way, the ad unit appears when showInterstitialAd is called.

To see how the ad will be displayed in the app, use a demo AdUnitId:

demo-interstitial-yandex

Enabling rewarded ads

Warning:

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A rewarded ad is a configurable full-screen ad. The user gets a reward for viewing the ad.

Creating and displaying RewardedAd

1. Add the import:

```
import 'package:yandex_mobileads/mobile_ads.dart';
```

2. Create a RewardedAd class object. You can only use the asynchronous method to create the object:

```
final ad = await RewardedAd.create(
   adUnitId: 'R-M-XXXXXX-Y',
   onAdLoaded: () {
      /* Do something */
   },
   onAdFailedToLoad: (error) {
```

```
/* Do something */
},
);
```

3. After you create the RewardedAd class object, load the ads. To load an ad, use the load method that accepts an optional AdRequest object.

```
await ad.load(adRequest: AdRequest());
```

You can wait for your ad to load asynchronously using the await keyword.

 Rewarded ads are loaded in the background immediately after the load method is called. To display an ad, call the show method:

```
await ad.show();
```

You can wait for the ad to start displaying asynchronously.

 Alternatively, you can use the waitForDismiss asynchronous method to wait until the end of the ad serving and/or reward:

```
Reward? reward = await ad.waitForDismiss();
```

Example of working with rewarded ads

The code demonstrates how to create and configure a RewardedAd object, and how to load and display a rewarded ad:

If an ad is integrated this way, the ad unit appears when showRewardedAd is called.

To see how the ad will be displayed in the app, use a demo AdUnitId:

demo-rewarded-yandex

Mobile mediation adapters



Warning:

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Mobile mediation is a platform for automatically selecting ads from multiple ad networks. Each advertising network offers an ad to be displayed and the mediation platform chooses the most profitable one.

The mobile mediation platform integrates adapters from most of the major ad networks listed below.

List of	sup	ported	ad	networks
---------	-----	--------	----	----------

Ad network	Banner Ad	Interstitial Ad	Rewarded Ad
AdMob	S	S	\checkmark

Ad network	Banner Ad	Interstitial Ad	Rewarded Ad
myTarget	 	S	
Start.io	S	S	S
UnityAds	×	S	O
AppLovin			
	(Android)		-
IronSource	×	S	\checkmark
AdColony			
(Android)	· · · · ·	· · · · · ·	•
ChartBoost			
(Android)	-	· · · · · ·	
Pangle	×		
(Android)		· · · · · ·	
Тарјоу	×		
(Android)		· · · · · ·	-
Vungle			
(Android)		· · · · · ·	-
Mintegral	S	S	S

Enabling AdMob



Warning:

This is an archived version of the documentation. Actual documentation for all platforms can be found here.

Supported ad formats

- Banner ads
- Interstitial ads
- Rewarded ads

Integration

To enable AdMob mediation, use the instructions for Android and iOS.

Enabling myTarget



Warning:

This is an archived version of the documentation. Actual documentation for all platforms can be found here.

Supported ad formats

- Banner ads
- Interstitial ads
- Rewarded ads

Integration

To enable myTarget mediation, use the instructions for Android and iOS.

Enabling Start.io



Warning:

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Supported ad formats

- Banner ads
- Interstitial ads
- Rewarded ads

Integration

To enable Start.io mediation, follow the instructions for Android and iOS.

Enabling UnityAds



Warning:

This is an archived version of the documentation. Actual documentation for all platforms can be found here.

Supported ad formats

- Interstitial ads
- Rewarded ads

Integration

To enable UnityAds mediation, use the instructions for Android and iOS.

Enabling AppLovin



Warning:

This is an archived version of the documentation. Actual documentation for all platforms can be found here.

Supported ad formats

- Android banner ads
- Interstitial ads
- Rewarded ads

Integration

To enable AppLovin mediation, use the instructions for Android and iOS.

Enabling IronSource



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Supported ad formats

- Interstitial ads
- Rewarded ads

Integration

To enable ironSource mediation, follow the instructions for Android and iOS.

Enabling AdColony



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This is an archived version of the documentation. Actual documentation for all platforms can be found here.

Supported ad formats

- Banner ads
- Interstitial ads
- Rewarded ads

Integration

To enable AdColony mediation, use the instructions for Android.

Enabling ChartBoost



Warning:

This is an archived version of the documentation. Actual documentation for all platforms can be found here.

Supported ad formats

- Banner ads
- Interstitial ads
- Rewarded ads

Integration

To enable ChartBoost mediation, use the instructions for Android.

Enabling Pangle



Warning:

This is an archived version of the documentation. Actual documentation for all platforms can be found here.

Supported ad formats

- Interstitial ads
- Rewarded ads

Integration

To enable myTarget mediation, use the instructions for Android.

Enabling Tapjoy



Warning:

This is an archived version of the documentation. Actual documentation for all platforms can be found here.

Supported ad formats

- Banner ads
- Interstitial ads
- Rewarded ads

Integration

To enable tapJoy mediation, follow the instructions for Android.

Enabling Vungle



Warning:

This is an archived version of the documentation. Actual documentation for all platforms can be found here.

Supported ad formats

- Banner ads
- Interstitial ads
- Rewarded ads

Integration

To enable Vungle mediation, use the instructions for Android.

Enabling Mintegral



Warning:

This is an archived version of the documentation. Actual documentation for all platforms can be found here.

Supported ad formats

- Banner ads
- Interstitial ads
- Rewarded ads

Integration

To enable Mintegral mediation, use the instructions for Android and iOS.