

Hybrid app ADID(gaid,idfa)

1. GAID

GAID AdvertisingIdClient.Info .

, , ' ' ' ' GAID .

AdvertisingIdClient.Info <<>> Google Play Services .

Google Play Services .

1. build.gradle
2. dependencies Google Play Services

```
apply plugin: 'com.android.application'
...

dependencies {
    ...
    compile 'com.google.android.gms:play-services:11.0.2'
}
```

3. Toolbar Sync Project with Gradle Files

Google Play Services GAID .

```
// Adid
class Adid {
    String adid;
    public void setAdid(String adid) { this.adid = adid; }
    public String getAdid() { return this.adid; }
}

...

final Adid adid = new Adid();

//      IllegalStateException
AsyncTask.execute(new Runnable() {
    @Override
    public void run() {
        try {
            AdvertisingIdClient.Info advertisingIdInfo = AdvertisingIdClient.getAdvertisingIdInfo
(getApplicationContext());
            if (!advertisingIdInfo.isLimitAdTrackingEnabled())
                adid.setAdid(advertisingIdInfo.getId());
        } catch (IOException | GooglePlayServicesNotAvailableException |
GooglePlayServicesRepairableException e) {
            e.printStackTrace();
        }
    }
});

...

// adid.getAdid()
@JavascriptInterface
public String getGaid() {
    return adid.getAdid();
}

...
```

2. iOS IDFA

IDFA ASIdentifierManager .

-> Linked Frameworks and Libraries '+' -> 'AdSupport'

, , ' ' ' ' IDFA .

2-1. Swift

```
import AdSupport

...

var adid:String = ""
if (ASIdentifierManager.shared().isAdvertisingTrackingEnabled) {
    adid = ASIdentifierManager.shared().advertisingIdentifier.uuidString
}

// adid
...
```

2-2. Objective-C

```
#import <AdSupport/ASIdentifierManager.h>

...

- (NSString *)identifierForAdvertising {
    if ([[ASIdentifierManager sharedManager] isAdvertisingTrackingEnabled]) {
        NSUUID *IDFA = [[ASIdentifierManager sharedManager] advertisingIdentifier];
        return [IDFA UUIDString];
    }
    return nil;
}

...

// [self identifierForAdvertising]

...
```

2.3 IDFA - IDFA iOS

2015 4 IDFA (iTunes Connect) .
check .

3. ADID

JavaScript SDK ADID .

Notice

, ' ' ' ' ADID .

, ADID .

1. **'AdvertisingIdClient.Info.isLimitAdTrackingEnabled()' true**
2. **iOS**
 - a. **Swift 'ASIdentifierManager.shared().isAdvertisingTrackingEnabled' false**
 - b. **Objective-C , '[[ASIdentifierManager sharedManager] isAdvertisingTrackingEnabled]' false**

ADID JavaScript API [Client Library APIs](#) .

- GAID @JavascriptInterface WebView GAID ,
 - ,WebView <script> recoPick('setGAID', 'GAID'); GAID .
 -) WebView JavascriptInterface Android, @JavascriptInterface GAID getGaid() ,
recoPick('setGAID', window.Android.getGaid());
- iOS
 - WebView JavaScript , window.recoPick('setIDFA', 'IDFA'); IDFA .
 - [] [iOS WebView token](#)
 - WebView ,WebView <script> recoPick('setIDFA', 'IDFA'); IDFA .
 - idfa idfa recopick uid .
) permission policy : <https://developer.apple.com/app-store/user-privacy-and-data-use/>