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| |  | | --- | | **Guidelines to use Mocean SDK Adapter for MoPub Android SDK** | |
| Android SDK Version 4.3.3  Dec 9, 2015 |

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**Change History**

| Version | Date | Changes |
| --- | --- | --- |
| **1.0** | Oct 7, 2015 | Initial Release |
| **2.0** | Dec 9, 2015 | Changes for PubMatic SDK v4.3.3 |

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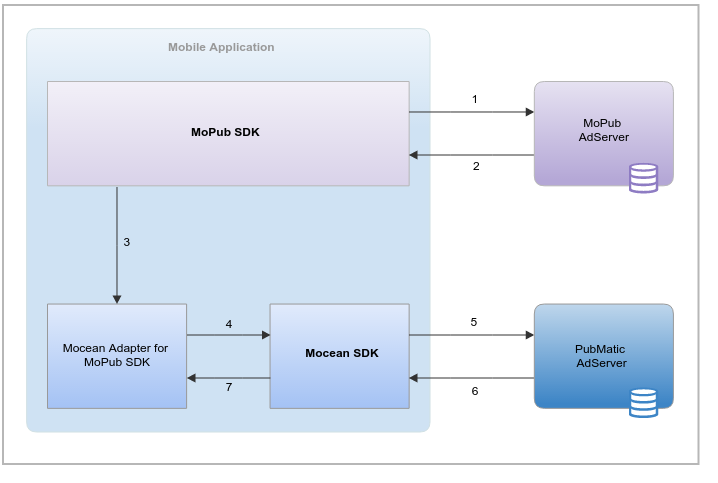
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# **Introduction**

In order to use PubMatic as a client side demand source, publishers can use third party mediation support in MoPub SDK to integrate PubMatic Mocean Android SDK for Native ads. PubMatic provides client side mediation adapter to integrate Mocean SDK with MoPub SDK. Publishers can easily integrate Mocean adapter and Mocean SDK into mobile application with minimal code changes.

This document provides guidelines for integrating Mocean Native SDK into MoPub SDK using Mocean adapter.

Following diagram illustrates the call flow in case of mediation ad serving.

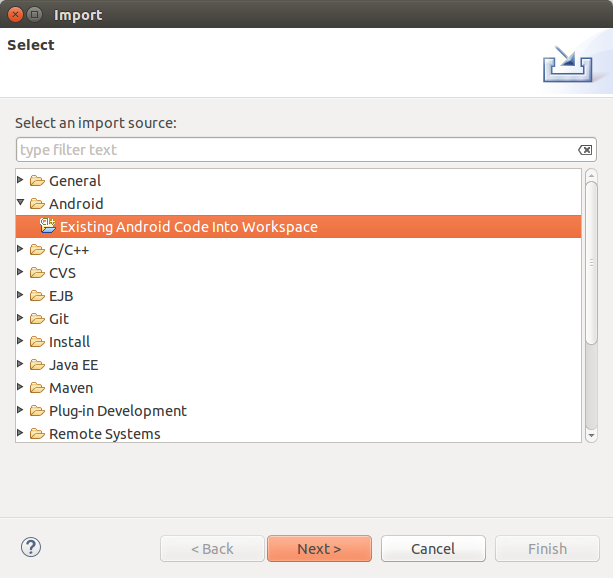


## **Mediation Ad Serving call flow**

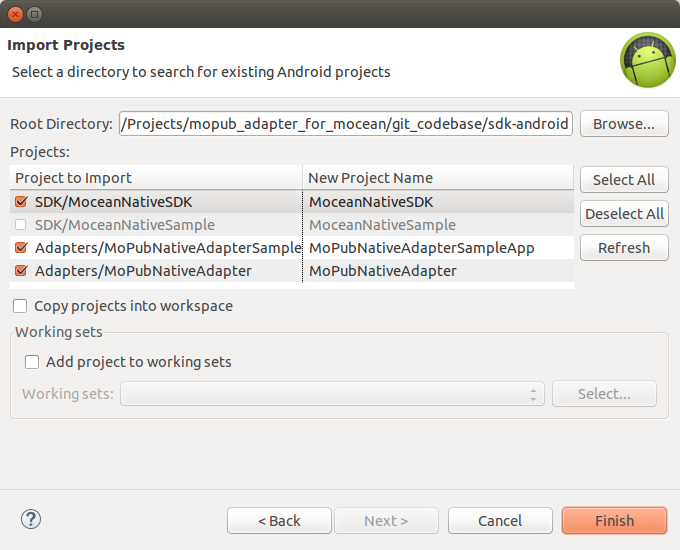
1. MoPub SDK which is integrated into application, requests ad from MoPub ad server.
2. MoPub responds back with mediation response containing Custom Event Class name (com.mopub.mobileads.MoceanNativeAdapter) and server extra parameters containing Mocean placement zoneid.
3. On receiving mediation response, MoPub SDK initializes Mocean adapter using class name, and pass all server extra parameters.
4. Mocean adapter initializes Mocean SDK with zoneid.
5. Mocean SDK then makes call to PubMatic ad server requesting ad.
6. PubMatic ad server responds with ad.
7. Mocean SDK sets the received native ad assets to MoPub SDK, which in turn provides the assets to publisher with standard callbacks.

# **Steps to integrate Mocean Adapter and Native SDK to application**

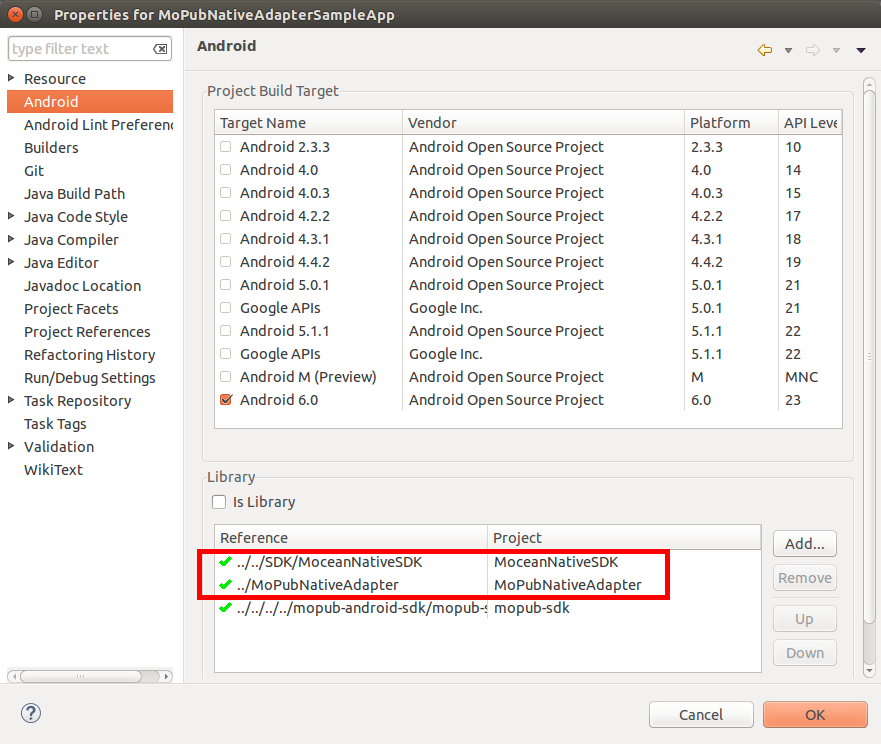
1. Download **Mocean SDK and Adapter**.
2. You can add **Mocean Native Adapter and Native SDK** as jar file dependency OR you can add both these projects as Android Library Projects and link to your application in Eclipse.   
   Following are the steps to add Mocean Native Adapter and Native SDK as Android library project.
3. Import **Mocean Native SDK** and **Mocean Native Adapter** as Android library project.



1. Import **MoceanNativeSDK** and **MoPubNativeAdapter** library projects into your eclipse workspace.
2. Optionally, you can also import **MoPubNativeAdapterSampleApp** which contains a sample implementation of Native adapter.



1. Link both these projects as Android library project to your application in Eclipse.



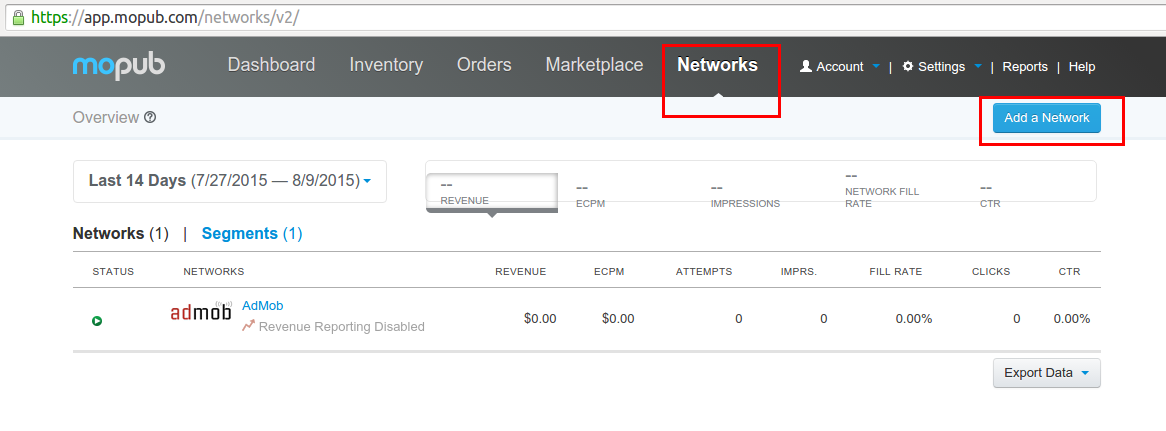
**OR**,

1. Instead of adding **Mocean Native adapter** and **Native SDK** as Android library project, you can add them as jar file dependencies to your project.   
   To add the adapter and SDK as jar file dependency, copy   
   SDK/MoceanNativeSDK/bin/**moceannativesdk.jar** and   
   Adapters/MoPubNativeAdapter/bin/**mopubnativeadapter.jar**   
   to your projects **/libs** folder. Make sure that both these files are added to your projects classpath.

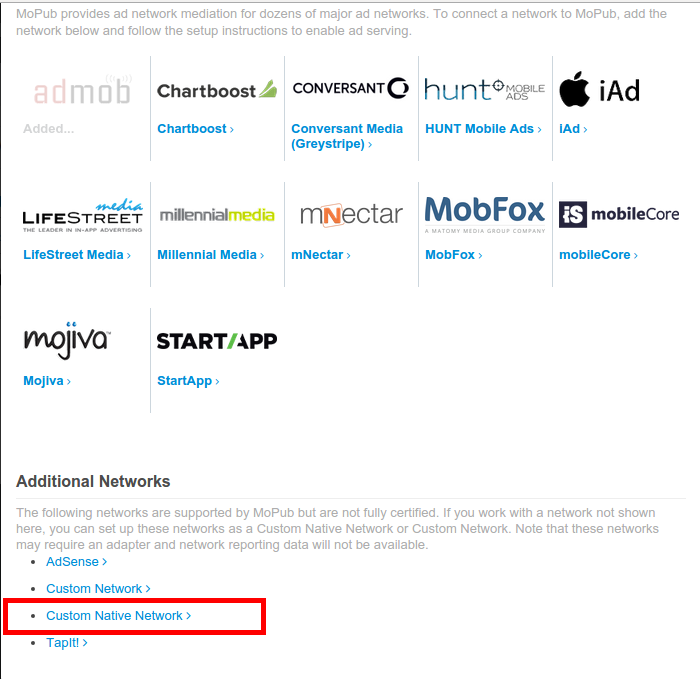
# **Configuring Mocean Network on MoPub Portal**

In order to configure Custom Event on MoPub portal, follow the below steps.

1. Login into the **MoPub** account ([link](https://app.mopub.com/account/login/)).
2. Navigate to the **Networks** tab and click **Add a Network**.



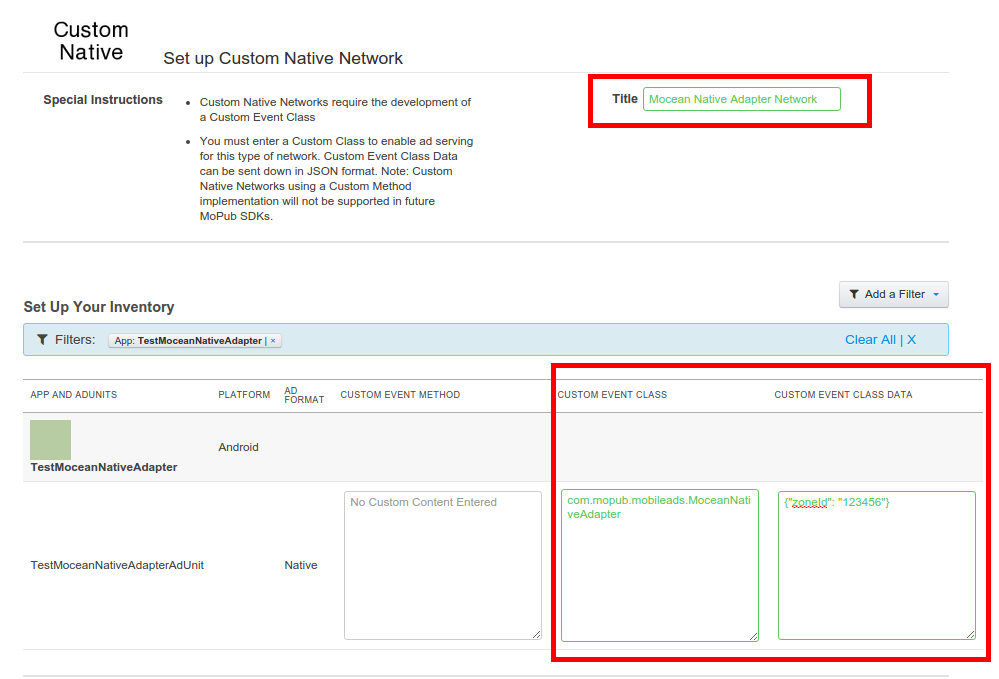
1. On *Add a network* pop-up, click **Custom Native Network**.



1. Give a suitable name to Mocean custom network.
2. In set up inventory section, add the custom event class and data only for the native ad unit for which you want to enable Mocean network.
3. In the custom event class field add following class name for Mocean Native Adapter.

com.mopub.mobileads.MoceanNativeAdapter

1. The Custom Event Class Data field takes a JSON containing Mocean placement zoneId. Enter zoneId provided by your PubMatic account manager, in the following format.   
   {"zoneId": "<your\_zone\_id>"}  
      
   Example:   
   {"zoneId": "123456"}   
      
   Please enter Custom Event Class name and data exactly in the same format mentioned above. Any changes in these may cause failure in initializing Mocean adapter.
2. Optionally, if required, you can also set custom base URL for Mocean ad server using **adServerUrl** JSON parameter.   
   {"zoneId": "<your\_zone\_id>", **"adServerUrl":"<custom\_base\_url>"**}   
      
   Example:   
   {"zoneId": "123456", "adServerUrl":"http://customUrl.com/ad?"}



1. Save the network. Please note that it may take from 15 to 30 minutes for MoPub ad server to reflect this change.
2. Done!

# **References**

1. [MoPub Custom Events Wiki](https://github.com/mopub/mopub-android-sdk/wiki/Custom-Events)
2. [MoPub Custom Native Network Setup](https://dev.twitter.com/mopub/ad-networks/network-setup-custom-native)