

[EXTERNAL EXPORT] OpenRTB Utilization

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SDK collects information about device, location, user, application etc., to enrich the bid requests. This doc describes which OpenRTB properties are utilized by SDK and how exactly SDK collects the information.

OpenRTB Parameters Collected by SDK

Parameter	iOS	Android	The source of value	The condition of optionality	Tech reason for empty value
app					
app.name	+	+	:Apple_Inc:: CFBundleDisplayName or CFBundleName :Android:: PackageManager.getApplicationLabel (in OXSettings)		
app.bundle	+	+	:Apple_Inc:: NSBundle mainBundle :Android:: Context.getPackageName (in OXSettings)		
device					
device.lmt	+	+	:Apple_Inc:: ASIdentifierManager.advertisingTrackingEnabled :Android:: AdvertisingIdClient.isLimitAdTrackingEnabled() (OXSettings)		
device.make	+	+	:Apple_Inc:: static string "Apple" :Android:: Build.MANUFACTURER		
device.model	+	+	:Apple_Inc:: UIDevice.model :Android:: Build.MODEL		
device.os	+	+	:Apple_Inc:: UIDevice.systemName :Android:: string "Android"		
device.osv	+	+	:Apple_Inc:: UIDevice.systemVersion :Android:: Build.VERSION.RELEASE		
device.hvw	+	-	:Apple_Inc:: sysctlbyname("hw.machine", ...)		
device.language	+	+	:Apple_Inc:: [NSLocale objectForKey: NSLocaleLanguageCode] :Android:: Locale.getDefault().getLanguage()		
device.ifa	+	+	:Apple_Inc:: ASIdentifierManager.advertisingIdentifier :Android:: AdvertisingIdClient.getAdvertisingIdInfo().getId()		iOS: https://developer.apple.com/documentation/adsupport/asidentifiermanager?language=objc If ad tracking is limited ifa will be 00000000-0000-0000-0000-000000000000
device.h	+	+	:Apple_Inc:: UIScreen.mainScreen.height :Android:: WindowManager.getScreenWidth (in DeviceInfoImpl)		
device.w	+	+	:Apple_Inc:: UIScreen.mainScreen.width :Android:: WindowManager.getScreenWidth (in DeviceInfoImpl)		
device.connectiontype	+	+	:Apple_Inc:: SCNetworkReachabilityFlags :Android:: NetworkParameterBuilder ("2" for wifi, "3" for others)	Android: Network permission	

device.carrier	+	+	:Apple_Inc:: CTTelephonyNetworkInfo CTCarrier carrierName :Android:: TelephonyManager.getNetworkOperatorName() (DeviceInfoImpl)		
device.mccmnc	+	+	:Apple_Inc:: CTTelephonyNetworkInfo CTCarrier mobileCountryCode mobileNetworkCode :Android:: TelephonyManager.getNetworkOperator (DeviceInfoImpl)		
device.geo					
device.geo.lat	+	+	:Apple_Inc:: CLLocation.coordinate :Android:: OXLocationImpl		iOS: Pending location update
device.geo.lon	+	+	:Apple_Inc:: CLLocation.coordinate :Android:: OXLocationImpl		iOS: Pending location update
device.geo.type	+	+	:Apple_Inc:: static 1 :Android:: static 1		
imp					
imp.displaymanager	+	+	:Apple_Inc:: static string "openx" :Android:: static String "openx" in BasicParameterBuilder		
imp.displaymanagerserver	+	+	:Apple_Inc:: CFBundleShortVersionString :Android:: OXSettings.SDK_VERSION		
imp.secure	+	+	:Apple_Inc:: static 1 :Android:: static 1		
imp.instl	+	+	:Apple_Inc:: banner = 0, interstitial = 1 :Android:: banner = 0, interstitial = 1		
imp.clickbrowser	+	+	:Apple_Inc:: static 0 :Android:: static 0		
imp.ext.dlp	+	+	:Android: / :Apple_Inc: "1" - indicates that deepLink+ is supported.		
imp.banner					
imp.banner.api	+	+	:Apple_Inc:/:Android:: dynamic: OXASDKConfiguration. sendMRAIDSupportParams true: [3, 5, 6, 7] false: [7]		
imp.video					
imp.video.mimes	+	+	:Apple_Inc:: OXMConstants.supportedVideoMimeTypes :Android:: OXSettings.supportedVideoMimeTypes		
imp.video.playbackend	+	+	:Apple_Inc:: static 2 :Android:: static 2		
imp.video.placement	+	+	:Apple_Inc:: static 5 :Android:: static 5		
imp.video.delivery	+	+	:Apple_Inc:: static [3] :Android:: OXSettings.DELIVERY_DOWNLOAD (static 3)		
imp.video.protocols	+	+	:Apple_Inc:: static [2, 5] :Android:: OXSettings.supportedVideoProtocols (static [2, 5])		
imp.video.playbackmethod	-	-			
imp.video.pos	+	+	:Apple_Inc:: static 7 :Android:: OXSettings.VIDEO_FULLSCREEN_POS (static 7)		
tmax	+	+	:Apple_Inc:: OXMSDKConfiguration. connectionTimeoutInSeconds :Android:: OXSettings.CONNECTION_TIMEOUT (3000)		

User-Defined Params

Parameter	iOS	Android	Set Up Method	Description
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app.storeUrl	+	+	:Apple_Inc:: Targeting.appStoreMarketURL :Android:: Targeting.setAppStoreMarketUrl	
device.ip	+	+	:Apple_Inc:: Targeting.IP :Android:: Targeting.setIpAddress	
user.id	+	+	:Apple_Inc:: Targeting.userId :Android:: Targeting.setUserId	
user.buyerid	+	+	:Apple_Inc:: Targeting.buyerUID :Android:: Targeting.setBuyerUid	
user.yob	+	+	:Apple_Inc:: Targeting.userAge :Android:: Targeting.setUserAge	
user.gender	+	+	:Apple_Inc:: Targeting.userGender :Android:: Targeting.setUserGender	
user.customdata	+	+	:Apple_Inc:: Targeting.userCustomData :Android:: Targeting.setUserCustomData	
user.keywords	+	+	:Android:: Targeting.setUserKeywords :Apple_Inc:: Targeting.keywords	
user.ext	+	+	:Apple_Inc:: Targeting.userExt :Android:: Targeting.setUserExt	
user.geo.lat/lon	+	+	:Apple_Inc:: Targeting.setLatitude: longitude: :Android:: Targeting.setUserLatLnG	
app.publisher.name	+	+	:Apple_Inc:: Targeting.getPublisherName :Android:: Targeting.setPublisherName	
user.ext.eids	+	+	:Apple_Inc:: Targeting.eids :Android:: Targeting.eids	

Other SDK defined parameters

attr/battr

The Apollo SDK doesn't send any blocked attributes and does not support functionality for custom attributes so far <https://openxtechinc.atlassian.net/browse/MOBILE-6707>. Apollo SDK is open to implementing this feature on demand when we have a strict publisher or demand request.

Native Ad Request Markup

Native Object

Parameter	iOS	Android	Set Up Method	
ver		+	:Apple_Inc:: :Android:: static "1.2"	
context		+	:Apple_Inc:: :Android:: NativeAdConfiguration.setContext	
contextsubtype		+	:Apple_Inc:: :Android:: NativeAdConfiguration.setContextSubType	
plcmnttype		+	:Apple_Inc:: :Android:: NativeAdConfiguration.setPlacementType	
seq		+	:Apple_Inc:: :Android:: NativeAdConfiguration.setSeq	
assets		+	:Apple_Inc:: :Android:: NativeAdConfiguration.addAsset	
eventtrackers		+	:Apple_Inc:: :Android:: NativeAdConfiguration.addTracker	
privacy		+	:Apple_Inc:: :Android:: NativeAdConfiguration.setPrivacy	

ext		+	:Apple_Inc:: :Android:: NativeAdConfiguration.setExt
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Asset Request Object

Parameter	iOS	Android	Set Up Method
required		+	:Apple_Inc:: :Android:: NativeAsset.setRequired
title		+	
title.len		+	:Apple_Inc:: :Android:: NativeAssetTitle.setLen
title.ext		+	:Apple_Inc:: :Android:: NativeAssetTitle.getTitleExt
img		+	
img.type		+	:Apple_Inc:: :Android:: NativeAssetImage.setType
img.w		+	:Apple_Inc:: :Android:: NativeAssetImage.setW
img.wmin		+	:Apple_Inc:: :Android:: NativeAssetImage.setWMin
img.h		+	:Apple_Inc:: :Android:: NativeAssetImage.setH
img.hmin		+	:Apple_Inc:: :Android:: NativeAssetImage.setHMin
img.mimes		+	:Apple_Inc:: :Android:: NativeAssetImage.setMimes
img.ext		+	:Apple_Inc:: :Android:: NativeAssetImage.getImageExt
video		+	
video.mimes		+	:Apple_Inc:: :Android:: NativeAssetVideo.setMimes
video.minduration		+	:Apple_Inc:: :Android:: NativeAssetVideo.setMinDuration
video.maxduration		+	:Apple_Inc:: :Android:: NativeAssetVideo.setMaxDuration
video.protocols		+	:Apple_Inc:: :Android:: NativeAssetVideo.setProtocols
video.ext		+	:Apple_Inc:: :Android:: NativeAssetVideo.getVideoExt
data		+	
data.type		+	:Apple_Inc:: :Android:: NativeAssetData.setType
data.len		+	:Apple_Inc:: :Android:: NativeAssetData.setLen
data.ext		+	:Apple_Inc:: :Android:: NativeAssetData.getDataExt
ext		+	:Apple_Inc:: :Android:: NativeAsset.getAssetExt