



Running **Radio** in the Background (iOS/Android)

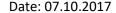
This is a short manual how to run Radio in the background on an iOS or Android device.

Visit us at the Unity AssetStore

Note:

In this tutorial we used

- Unity 5.6.1
- Xcode 8 (tested with iOS 10.3)
- Android Studio 2.1.3 (tested with Android 5.1)





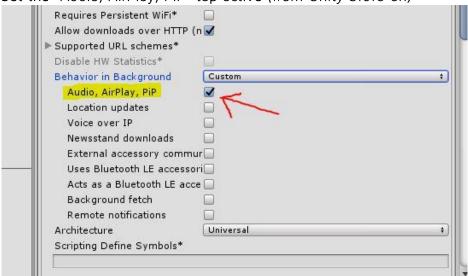
iOS

Go to the PlayerSettings
 File -> Build Settings -> PlayerSettings

2. Change the "Behaviour in Background" from Suspend to Custom

Tab: Other Settings

3. Set the "Audio, AirPlay, PIP" top active (from Unity 5.6.0 on)



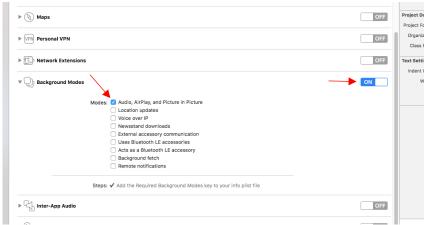
4. Build the project for iOS

Xcode Settings

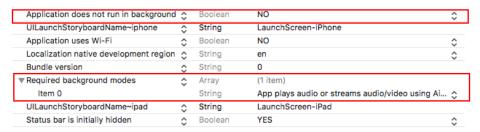
1. Open the Xcode project

2. Click on the project (with the blue icon to the left) and open the Capabilities tab

3. Scroll to the **Background Modes** and check if the "Audio, AirPlay, and Picture in Picture" is **active**



4. Open the *info.plist* file and check the following values



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gateListener> obj

- 5. Search for "AppDelegate" and open the UnityAppController.mm file
- 6. Add the import lines for AVFoundation and AudioToolbox

```
#import

    □ Unity-iPhone    □ Classes    □ UnityAppController.mm    No Selection
                         #import "UnityAppController.h"
                         #import "UnityAppController+ViewHandling.h"
#import "UnityAppController+Rendering.h"
#import "iPhone_Sensors.h"
              0
 Ignoring Case≎
                         #import <CoreGraphics/CoreGraphics.h>
                         #import <QuartzCore/QuartzCore.h>
#import <QuartzCore/CADisplayLink.h>
iles
Unity-iPhone
                         #import <Availability.h>
ateListener<Life
                         #import <AVFoundation/AVFoundation.h>
#import <AudioToolbox/AudioToolbox.h>
                     11
12
pDelegate
gateListener> obj
                         #import <OpenGLES/EAGL.h>
                         #import <OpenGLES/EAGLDrawable.h>
                     15
                         #import <OpenGLES/ES2/gl.h>
pDelegate
                         #import <OpenGLES/ES2/glext.h>
gateListener> obj
                     19 #include <mach/mach_time.h>
AppDelegate
```

7. Next, search in the same file for "applicationDidEnterBackground" and add these lines

// MSAA_DEFAULT_SAMPLE_COUNT was moved to iPhone_GlesSupport.h

// ENABLE_INTERNAL_PROFILER and related defines were moved to iPhone_Profiler.h

// KFPS define for removed: you can use Application.targetFrameRate (30 fps by default

// Displaylink is the only run loop mode now - all others were removed

```
NSError *setCategoryErr = nil;
NSError *activationErr = nil;
[[AVAudioSession sharedInstance] setCategory: AVAudioSessionCategoryPlayback error:&setCategoryErr];
[[AVAudioSession sharedInstance] setActive:YES error:&activationErr];
                                                                                [self createUI];
[self preStartUnity];
                                                                                 // if you wont use keyboard you may comment it out at save some memory
[KeyboardDelegate Initialize];
 elegate
                                                 265
266 }
 istener> obi
 elegate
                                                                          (\verb"void") application \verb"DidEnterBackground": (\verb"UIApplication*") application \verb"application" application applicat
                                                                                 NSError *setCategoryErr = nil;
NSError *activationErr = nil;
[[AVAudioSession sharedInstance] setCategory: AVAudioSessionCategoryPlayback error:&setCategoryErr];
[[AVAudioSession sharedInstance] setActive:YES error:&activationErr];
itv-iPhone
tener.h"
                                                                                  ::printf("-> applicationDidEnterBackground()\n");
egate
istener> obi)
                                                                          (void)applicationWillEnterForeground:(UIApplication*)application
elegate
                                                                                ::printf("-> applicationWillEnterForeground()\n");
istener> obi)
                                                                                  // applicationWillEnterForeground: might sometimes arrive *before* actually initing unity (e.g. locking on startup if (_unityAppReady)
elegate
.istener> obj)
```

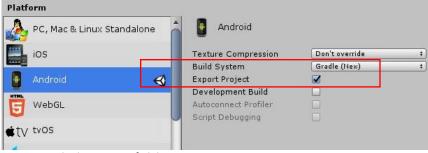
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Android

Unity Settings

- 1. Open the Build Settings
 - a. File -> Build Settings
- 2. For Build System, choose Gradle (New)
- 3. Set export to active



4. Click **Export** and choose a folder

Android Studio Settings

- 1. Open Android Studio
- 2. Open the project folder
- 3. Open the *UnityPlayerActivity.java* file Radio -> src -> main -> java -> com -> crosstales -> Radio
- 4. Search for "onPause"
- 5. Comment out the function

```
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```

Done :-)