## Spil Unity Plugin

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5.9.1.32	TrackStopGestureScreen
5.9.1.33	TrackTimedEvent
5.9.1.34	TrackUserID

## **Chapter 1**

# **Deprecated List**

Member SpilUnity.GetABTest (SpilABTestListener listener)

Member SpilUnity.GetSettings (SpilAppSettingsListener listener)

Member SpilUnity.StartAds (SpilAdsListener listener)

2 **Deprecated List** 

# **Chapter 2**

# Namespace Index

Here is a list of all documented namespaces with brief descriptions:				
Spil	 	 	 	7

Namespace Index

## **Chapter 3**

## **Class Index**

## 3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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6 **Class Index** 

## **Chapter 4**

## **Namespace Documentation**

## 4.1 Package Spil

### Classes

- class IgaPanel
- class SGHelpers
- interface SpilABTestListener
- interface SpilAdsListener
- interface SpilAppSettingsListener
- interface SpillnGameAdsListener
- interface SpilTrackingExtendedListener
- struct SpilSettings

## **Enumerations**

- enum Environment { SG\_ENVIRONMENT\_DEV\_VALUE = 0, SG\_ENVIRONMENT\_LIVE\_VALUE }
- enum Orientation { SG\_LANDSCAPE = 0, SG\_PORTRAIT }
- enum Store { SG\_STORE\_IOS, SG\_STORE\_AMAZON, SG\_STORE\_GOOGLE\_PLAY }

## 4.1.1 Detailed Description

Namespace to group the Spil definitions for the unity plugin.

## 4.1.2 Enumeration Type Documentation

## 4.1.2.1 enum Spil.Enviroment

Type of environment supported in the configurations

## 4.1.2.2 enum Spil.Store

Number of stores supported in the configurations

Namespace I	Documentation
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## **Chapter 5**

## **Class Documentation**

## 5.1 Spil.lgaPanel Class Reference

## **Public Attributes**

- SpilUnity spilUnity
- Texture2D texture
- · string link
- string adld

The documentation for this class was generated from the following file:

· /Users/ignacio/Documents/native-unity-plugin/demos/sample/Assets/Plugins/Spil/Resources/IgaPanel.cs

## 5.2 Spil.SGHelpers Class Reference

## **Static Public Member Functions**

- static string GetUDID ()
- static string GetAppVersion ()
- static string GetAppName ()

## 5.2.1 Member Function Documentation

**5.2.1.1** static string Spil.SGHelpers.GetAppName( ) [inline], [static]

Get the current name of the app from the Info.plist

## Returns

The CFBundleName entry in the Info.plist

```
5.2.1.2 static string Spil.SGHelpers.GetAppVersion() [inline], [static]
```

Get the current version of the app from the Info.plist

Returns

The CFBundleVersion entry in the Info.plist

```
5.2.1.3 static string Spil.SGHelpers.GetUDID() [inline],[static]
```

Get the UDID generated for this device.

Returns

The UDID generated for this device.

The documentation for this class was generated from the following file:

/Users/ignacio/Documents/native-unity-plugin/demos/sample/Assets/Plugins/Spil/SGHelpers.cs

## 5.3 Spil.SpilABTestListener Interface Reference

### **Public Member Functions**

- void ABTestSessionDidStart ()
- void ABTestSessionDidEnd ()
- void ABTestSessionDiffReceived (JsonData diffs)

## 5.3.1 Detailed Description

Interface to listen the events trigerred by the A/B Testing subsystem

## 5.3.2 Member Function Documentation

5.3.2.1 void Spil.SpilABTestListener.ABTestSessionDidEnd ( )

Method to call back after the a/b test subsystem is successfully ended.

5.3.2.2 void Spil.SpilABTestListener.ABTestSessionDidStart ( )

Method to call back after the a/b test subsystem is successfully started.

5.3.2.3 void Spil.SpilABTestListener.ABTestSessionDiffReceived ( JsonData diffs )

Method to call back after the a/b test subsystem receive the differences to apply over the original version. The differences come expressed as an array of objects. These objects are represented as dictionaries, where, always are defined the following keys:

- uid: an ID for this resource to test. A resource can contain many elements to test. Details in the next entry.
- diff: a dictionary with all the changes to apply to this resource. In this resource, many elements could be changed, for each element, an entry will appear in this dictionary. Each of this entry will contain a dictionary with exactly 2 keys: "new" and "old", refering to the original and value to replace with.
- item\_class: unused for the moment.

The documentation for this interface was generated from the following file:

/Users/ignacio/Documents/native-unity-plugin/demos/sample/Assets/Plugins/Spil/Spil/ABTestListener.cs

## 5.4 Spil.SpilAdsListener Interface Reference

#### **Public Member Functions**

- void AdDidStart ()
- · void AdDidFailToStart (string error)
- void AdWillAppear ()
- void AdDidAppear ()
- void AdDidFailToAppear (string error)
- void AdMoreGamesWillAppear ()
- void AdMoreGamesDidAppear ()
- void AdMoreGamesDidFailToAppear (string error)
- void AdMoreGamesDidDismiss ()
- void AdPopupDidDismiss ()

## 5.4.1 Detailed Description

Interface to listen the events triggered by the Ads subsystem.

### 5.4.2 Member Function Documentation

5.4.2.1 void Spil.SpilAdsListener.AdDidAppear ( )

Method to call back after the ad is displayed. This method is only called if the ads are enabled to be displayed (enable-Ads:YES).

5.4.2.2 void Spil.SpilAdsListener.AdDidFailToAppear ( string error )

Method to call back if the ad couldn't be displayed due to any reason.

#### **Parameters**

error The reason why the ad failed to be displayed.

## 5.4.2.3 void Spil.SpilAdsListener.AdDidFailToStart ( string error )

Method to call back after if the ad subsystem couldn't be started due to any reason.

#### **Parameters**

error	The reason why the ad subsystem failed to start.
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	,

## 5.4.2.4 void Spil.SpilAdsListener.AdDidStart ( )

Method to call back after the ad subsystem is successfully started.

5.4.2.5 void Spil.SpilAdsListener.AdMoreGamesDidAppear ( )

Method to call back after the more games' screen is displayed.

5.4.2.6 void Spil.SpilAdsListener.AdMoreGamesDidDismiss ( )

Method to call back if the more games' screen was dismissed.

5.4.2.7 void Spil.SpilAdsListener.AdMoreGamesDidFailToAppear ( string error )

Method to call back if the more games' screen couldn't be displayed due to any reason.

#### **Parameters**

error The reason why the more games' screen failed to be displayed.

### 5.4.2.8 void Spil.SpilAdsListener.AdMoreGamesWillAppear ( )

Method to call back before the next more games' screen is going to be shown.

5.4.2.9 void Spil.SpilAdsListener.AdPopupDidDismiss ( )

Method to call back if the ad' popup was dismissed.

5.4.2.10 void Spil.SpilAdsListener.AdWillAppear ( )

Method to call back before the next ad is going to be displayed. This method is called every time the timer reach 0, regardless if the ad should be shown or not (enableAds is set to NO).

The documentation for this interface was generated from the following file:

• /Users/ignacio/Documents/native-unity-plugin/demos/sample/Assets/Plugins/Spil/SpilAdsListener.cs

## 5.5 Spil.SpilAppSettingsListener Interface Reference

## **Public Member Functions**

- void AppSettingsDidLoad (JsonData data)
- void AppSettingsDidFailWithError (string error)
- void AppSettingsDidStartDownload ()

### 5.5.1 Detailed Description

Interface to listen the responses from the App Settings subsystem

## 5.5.2 Member Function Documentation

5.5.2.1 void Spil.SpilAppSettingsListener.AppSettingsDidFailWithError ( string error )

Method to call back in case the settings couldn't be loaded. Usually the reasons to call this method will be:

- if there is any parsing error in the remote settings and in the local settings.
- · if there is a connection error, and the file of the defaults can be found locally.

#### **Parameters**

error Error describing what was wrong.

#### 5.5.2.2 void Spil.SpilAppSettingsListener.AppSettingsDidLoad ( JsonData data )

Method to call back when the settings are finally loaded. This methods will receive the settings loaded in the form of a JSON object. The developers should know the structure of the object since they created the default settings file.

#### **Parameters**

data The settings loaded. The format and the values are defined by the developer of the app.

## 5.5.2.3 void Spil.SpilAppSettingsListener.AppSettingsDidStartDownload ( )

Method to call back when the download of the settings has been started.

The documentation for this interface was generated from the following file:

/Users/ignacio/Documents/native-unity-plugin/demos/sample/Assets/Plugins/Spil/Spil/SpilAppSettingsListener.cs

## 5.6 Spil.SpillnGameAdsListener Interface Reference

## **Public Member Functions**

- · void AdDidLoadIngameAsset (GameObject billboard)
- void AdDidFailIngameAsset (string error)

## 5.6.1 Member Function Documentation

5.6.1.1 void Spil.SpillnGameAdsListener.AdDidFailIngameAsset ( string error )

Method to call back if IGA has any problem while been loaded

5.6.1.2 void Spil.SpilInGameAdsListener.AdDidLoadIngameAsset ( GameObject billboard )

Method to call back if IGA has been loaded.

The documentation for this interface was generated from the following file:

 $\bullet \ / Users/ignacio/Documents/native-unity-plugin/demos/sample/Assets/Plugins/Spil/SpilInGameAdsListener.cs$ 

## 5.7 Spil.SpilSettings Struct Reference

## **Public Attributes**

- Environment SG\_ENVIRONMENT\_KEY
- string SG\_ENVIRONMENT\_SETTINGS\_URL\_GET
- float SG\_APP\_SETTINGS\_POLL\_TIME\_KEY
- string SG TRACKING ID KEY
- Store SG STORE ID

## 5.7.1 Detailed Description

Settings to pass to the native application

## 5.7.2 Member Data Documentation

5.7.2.1 float Spil.SpilSettings.SG\_APP\_SETTINGS\_POLL\_TIME\_KEY

Time in seconds to scan for the default settings. Only is used if SG\_ENVIRONMENT\_KEY is set to SG\_ENVIRONMENT\_DEV\_VALUE.

5.7.2.2 Enviroment Spil.SpilSettings.SG\_ENVIRONMENT\_KEY

Type of environment to use

5.7.2.3 string Spil.SpilSettings.SG\_ENVIRONMENT\_SETTINGS\_URL\_GET

URL to get the app settings file. Required if SG\_ENVIRONMENT\_KEY is set to SG\_ENVIRONMENT\_DEV\_VALUE.

5.7.2.4 string Spil.SpilSettings.SG\_TRACKING\_ID\_KEY

Application ID in the tracking system.

The documentation for this struct was generated from the following file:

/Users/ignacio/Documents/native-unity-plugin/demos/sample/Assets/Plugins/Spil/Spil/Unity.cs

## 5.8 Spil.SpilTrackingExtendedListener Interface Reference

## **Public Member Functions**

- void TrackExtendedDidStart ()
- void TrackExtendedDidStop ()

## 5.8.1 Detailed Description

Interface to listen the responses from the Extended Tracking subsystem

## 5.8.2 Member Function Documentation

5.8.2.1 void Spil.SpilTrackingExtendedListener.TrackExtendedDidStart ( )

Method to call back when the any of the extended trackers are started. If the camera tracker is set up this method is called after the confirmation pop up is done, and if there is at least one tracker active. When the camera tracker is not set up, this method is called when any of the other are activated.

5.8.2.2 void Spil.SpilTrackingExtendedListener.TrackExtendedDidStop ( )

Method to call back when ALL the extended trackers are stopped. This is an informative call.

The documentation for this interface was generated from the following file:

/Users/ignacio/Documents/native-unity-plugin/demos/sample/Assets/Plugins/Spil/Spil/TrackingExtendedListener.-cs

## 5.9 SpilUnity Class Reference

## **Public Member Functions**

- · void Awake ()
- void OnApplicationQuit ()
- void Initialize (string appID, string authToken, SpilSettings configs)
- void GetSettings (SpilAppSettingsListener listener)
- void SetAppSettingsListener (SpilAppSettingsListener listener)
- void StartAds (SpilAdsListener listener)
- void SetAdsListener (SpilAdsListener listener)
- void AdsNextInterstitial ()
- void AdsNextInterstitial (string location)
- void AdsShowMoreGames ()
- void AdsEnabled (bool state)
- void AdsCacheNextInterstitial ()
- void AdsCacheNextInterstitial (string location)

- · void SetInGameAdListener (SpilInGameAdsListener listener)
- void AdsRequestIngameAsset (Orientation orient)
- void AdsRequestIngameAsset (Orientation orient, string location)
- void SetExtendedTrackingListener (SpilTrackingExtendedListener listener)
- void TrackPage (string page)
- void TrackEvent (string evt)
- void TrackEventDetailed (string category, string action, string label, int val)
- void TrackEventWithParameters (string evt, Dictionary < string, string > parameters)
- void TrackTimedEvent (string evt)
- void TrackEndTimedEvent (string evt)
- void TrackEndTimedEventWithParameters (string evt, Dictionary < string, string > parameters)
- void TrackError (string evt, string message, Exception exception)
- void TrackUserID (string userID)
- void TrackAge (int age)
- void TrackGender (bool male)
- void TrackLatitude (double latitude, double longitude, double horizontalAccuracy, double verticalAccuracy)
- void TrackStartGestureScreen (string screenName)
- void TrackStopGestureScreen ()
- void GetABTest (SpilABTestListener listener)
- void SetABTestListener (SpilABTestListener listener)
- void ABTestUpdateUserInfo ()
- void ABTestUpdateUserInfoWith (Dictionary< string, string >info)
- void ABTestGetTestDiff ()
- void ABTestGetTestDiffForUser (string user)
- void ABTestMarkSucceedTest (string name, Dictionary< string, string >parameters)

## **Properties**

• static SpilUnity Instance [get]

#### 5.9.1 Member Function Documentation

**5.9.1.1 void SpilUnity.ABTestGetTestDiff( )** [inline]

Send a request to retrieve the test differences for this user (MAC Address). The differences will be sent asynchronously to the ABTestDelegate implemented and set in the getABTest method.

5.9.1.2 void SpilUnity.ABTestGetTestDiffForUser ( string user ) [inline]

For development purposes only. Send a request to retrieve the test differences for this user. The differences will be sent asynchronously to the ABTestDelegate implemented and set in the getABTest method.

## **Parameters**

user The user to force the different variants of the A/B test.

5.9.1.3 void SpilUnity.ABTestMarkSucceedTest ( string name, Dictionary < string > parameters ) [inline]

Mark a particular resource as a success with the parameters that lead to that success. This method should be called with the exact name of the resource and also it must be called with the control version to be able to compare results.

#### **Parameters**

name	The name of the resource to mark as a successful one.
params	A dictionary with extra parameters relevant for the analysis of the action called.

## **5.9.1.4 void SpilUnity.ABTestUpdateUserInfo()** [inline]

Update the user basic information to create segments and improve A/B tests. This method will send:

- · Country
- · Language
- · Device (ipad, ipod, iphone)
- · OS Platform (version)

## 5.9.1.5 void SpilUnity.ABTestUpdateUserInfoWith ( Dictionary < string, string > info ) [inline]

Update the user information to create segments and improve A/B tests. This method will send the basic information (

## See Also

abtestUpdateUserInfo) plus all the information included in the extra info

## **Parameters**

extraInfo	A dictionary with all the extra parameter we want to submit.

**5.9.1.6** void SpilUnity.AdsCacheNextInterstitial ( ) [inline]

Cache the next intersitial ad.

5.9.1.7 void SpilUnity.AdsCacheNextInterstitial ( string location ) [inline]

Cache the next intersitial ad.

#### **Parameters**

_		
	location	Location to show the ad on chartboost.

```
5.9.1.8 void SpilUnity.AdsEnabled (bool state) [inline]
```

Turn on/off if the ads should be displayed. The ads are displayed by default. For gameplay screens should be turned off. After return to the menus should be turned on again.

#### **Parameters**

state Indicates if the ads should be displayed or not.

```
5.9.1.9 void SpilUnity.AdsNextInterstitial ( ) [inline]
```

The ads are displayed based on a timer, this method force the ad to be shown right away, and the timer is reset.

```
5.9.1.10 void SpilUnity.AdsNextInterstitial (string location) [inline]
```

The ads are displayed based on a timer, this method force the ad to be shown right away, and the timer is reset.

#### **Parameters**

location	Location to show the ad on chartboost.

5.9.1.11 void SpilUnity.AdsShowMoreGames ( ) [inline]

Force to show the More Games screen.

**5.9.1.12 void SpilUnity.GetABTest (SpilABTestListener** *listener* ) [inline]

## **Deprecated**

5.9.1.13 void SpilUnity.GetSettings (SpilAppSettingsListener listener) [inline]

#### **Deprecated**

5.9.1.14 void SpilUnity.Initialize (string applD, string authToken, SpilSettings configs) [inline]

Create a Spil object singleton with an application ID and authentication token that will be used along the framework for multiple services. Also you must specify some configurations to control the behaivor of the framework. Most important, if the framework should act like a development environment or a production environment. Some validations about the configurations are made, if one fails, an error is written in the console log.

## **Parameters**

appID	The application ID provided by Spil Games, it can't be null.
authToken	The authentication token provided by Spil Games, it can't be null.
configs	A reference to a SpilSettings struct with the posible settings to be used by spil framework.

5.9.1.15 void SpilUnity.SetABTestListener ( SpilABTestListener listener ) [inline]

Method to set the ABTestListener and receive the proper notifications from it.

#### **Parameters**

delegate The delegate to handle the events generated by the A/B test subsystem.

5.9.1.16 void SpilUnity.SetAdsListener (SpilAdsListener listener) [inline]

Method to set the SpilAdsListener and receive the proper notifications from it.

#### **Parameters**

listener The listener to handle the events generated by the Ads subsystem.

5.9.1.17 void SpilUnity.SetAppSettingsListener (SpilAppSettingsListener listener) [inline]

Method to retrieve the AppSettings for this app. A delegate is required in order to deliver the settings downloaded from the server or loaded from the default files.

## **Parameters**

listener The listener to handle the response of the AppSettings subsystem.

5.9.1.18 void SpilUnity.SetExtendedTrackingListener (SpilTrackingExtendedListener listener) [inline]

Method to set up the SpilTrackingExtendedListener for the extended tracking events. This listener is optional, but its usage it's encouraged since this will guarantee the calls made are actually efective and not dropped because the extended tracking wasn't started yet.

5.9.1.19 void SpilUnity.SetInGameAdListener ( SpilInGameAdSListener listener ) [inline]

Method to set the SpillnGameAdsListener and receive the proper notifications from it.

#### **Parameters**

*listener* The listener to handle the events generated by the Ads subsystem.

5.9.1.20 void SpilUnity.StartAds (SpilAdsListener listener) [inline]

## **Deprecated**

5.9.1.21 void SpilUnity.TrackAge (int age ) [inline]

Track the age of the user is logged in the application. Useful for demographic information.

#### **Parameters**

age	The age to track.

5.9.1.22 void SpilUnity.TrackEndTimedEvent ( string evt ) [inline]

Track requesto to register the end of an event that was started. If the tracking system support it natively the equivalent method will be used. Otherwise, an event with the end timestamp(epoch) is issued.

## **Parameters**

event	The event to track.	Should match with the starting event.

#### See Also

trackTimedEvent: .

5.9.1.23 void SpilUnity.TrackEndTimedEventWithParameters ( string evt, Dictionary < string, string > parameters ) [inline]

Track requesto to register the end of an event that was started. If the tracking system support it natively the equivalent method will be used. Otherwise, an event with the end timestamp(epoch) is issued.

#### **Parameters**

event	The event to track. Should match with the starting event.
-------	---

#### See Also

trackTimedEvent: .

### **Parameters**

params	The parameters when the event was finished.

5.9.1.24 void SpilUnity.TrackError ( string evt, string message, Exception exception ) [inline]

Track request to register an error that has occured in the application.

#### **Parameters**

event	The event to track.
msg	The message with the detail of the error.
exception	The exception that causes the error.

**5.9.1.25** void SpilUnity.TrackEvent (string evt) [inline]

Track request to register an event. The event could be actions taken on some object like unlocking an achievement, or a getting a hi score. In google analytics jargot they will be register as a "category"="event" and the event passed as parameter as the action taken. In flurry jargot, an event with parameters is created and the parameters match with

google analytics (category,action,label,value)

#### **Parameters**

event	The event to track.
-------	---------------------

5.9.1.26 void SpilUnity.TrackEventDetailed ( string category, string action, string label, int val ) [inline]

Track request to register an event under a particular category. The parameters match with the google analytics' ones. For flurry, a event with parameters is issued.

#### **Parameters**

category	The category for this event.
action	The action took on that category.
label	Optional. A string label to especify something about the action.
value	Optional. A integer value. useful to especify error codes.

5.9.1.27 void SpilUnity.TrackEventWithParameters ( string evt, Dictionary < string, string > parameters ) [inline]

Track request to register an event with particular parameters. This match the Flurry's logEvent:withParameters:. It's not supported for GAN.

#### **Parameters**

event	The event to track
params	Additional parameters to attach to the event.

5.9.1.28 void SpilUnity.TrackGender (bool male) [inline]

Track the gender of the user is logged in the application. Useful for demographic information.

## **Parameters**

male	YES TRUE if the player is male, NO FALSE if the player is female.

5.9.1.29 void SpilUnity.TrackLatitude ( double *latitude*, double *longitude*, double *horizontalAccuracy*, double *verticalAccuracy* )

Track the location information of the player if it's available. If the tracking system support it natively the equivalent method will be used. Otherwise, an event with the information of the location (latitude, longitude and accuracy) is issued.

## **Parameters**

latitude	The latitude where the device is. (it's a double value)
longitude	The longitude where the device is. (it's a double value).
hAccuracy	The horizontal accuracy of the measurement. (it's a double value).
vAccuracy	The vertical accuracy of the measurement. (it's a double value).

```
5.9.1.30 void SpilUnity.TrackPage ( string page ) [inline]
```

Track request to register a particular page. It can be used to keep track of the current screen separetely from the events. If the session is not started yet, this request is ignored.

#### **Parameters**

page The page name/url to track.

5.9.1.31 void SpilUnity.TrackStartGestureScreen ( string screenName ) [inline]

Start the recording of the gestures for a new screen, the gestures for this screen will be stored together regarding how many times this screen has been started.

#### **Parameters**

screenName	The name of the screen to record.	

5.9.1.32 void SpilUnity.TrackStopGestureScreen ( ) [inline]

Stop the recording gestures for this screen, the gestures are drop until you start a new screen.

5.9.1.33 void SpilUnity.TrackTimedEvent ( string evt ) [inline]

Track requesto to register the start of an event that should end in a finite time. If the tracking system support it natively the equivalent method will be used. Otherwise, an event with the start timestamp(epoch) is issued.

## **Parameters**

event	The event to track.

5.9.1.34 void SpilUnity.TrackUserID ( string userID ) [inline]

Track the user ID that logged in the application. Useful to keep track of how many users return to the application.

#### **Parameters**

userID The user ID to track.

The documentation for this class was generated from the following file:

/Users/ignacio/Documents/native-unity-plugin/demos/sample/Assets/Plugins/Spil/Spil/Unity.cs

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