

# Cordova LivePerson Messaging Plugin

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Examples of how to interact with the LivePerson Messaging SDK

## Versioning

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Current Version: v2.9

Running with the following versions of the LivePerson Messaging SDK

- [iOS SDK v2.9.3](#)
- [Android SDK v2.9.2](#)

## Untested Features

The following new SDK features have not been tested for Cordova plugin compatibility.

- Secure Form

## General Limitations / Unsupported Features

- Fragment mode on Android
- ViewController mode on iOS

In both of the above cases these **might** be solvable with more iOS/Android expertise but this has not been achieved yet with the current plugin.

**Attempt to integrate the SDK in these modes at your own risk**

- Branding

Customisations of both SDKs in terms of look and feel can still be achieved through editing the related native class files on iOS/Android – **but support for such config changes via a web layer across platforms is NOT in scope/available**

- Callbacks / Event Limitations

Whilst we support and expose a number of delegate callbacks and events to the web layer (see API reference section below), these are not 1:1 parity across both platforms due to differences in the SDK and platforms they run on. Please check the documentation below to understand which events apply to each platform.

Requiring additional brand specific events will require you to modify the code and classes as you see fit.

**PLEASE NOTE -- XCODE UPGRADE REQUIRED!!**

- iOS SDK v2.9.x requires XCODE v9.1 and above to use Swift 4.0
  - You will need macOS Sierra in order to install this.

## Installing / Getting started

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*"Where do I find the latest version of the plugin?"*

Repo has been restructured. The plugin is now here:

[/plugins/MessagingSDKPlugin](#)

If you need to reinstall the plugin to your app, make sure you pull it from this folder.

e.g if you were working in the sampleapp01 example folder

```
cd apps/sampleapp01
```

```
cordova plugin remove com.liveperson.messagingSDK  
cordova plugin add ../../plugins/MessagingSDKPlugin
```

## iOS

### Prerequisites

To use the LivePerson In-App Messaging SDK, the following are required:

- XCode 9.1 or later
- Swift 4.0 or later, or Objective-C

For latest information please refer to [LivePerson Developers Site](#)

### Add iOS SDK Frameworks – Recommended via CocoaPods

The SDK is also compatible with CocoaPods, a dependency manager for Swift and Objective-C Cocoa projects. CocoaPods has thousands of libraries and is used in over 2 million apps. It can help you scale your projects elegantly and provides a standard format for managing external libraries.

1. Install cocoapods using the following command:

```
$ gem install cocoapods
```

2. Navigate to your project folder and init new pod using the following command:

```
$ pod init
```

3. Podfile should be created under your project's folder.

To integrate Liveperson Messaging SDK into your Xcode project using CocoaPods, specify it in your Podfile:

<https://developers.liveperson.com/consumer-experience-ios-sdk-sampleapp.html#add-lpmessaging-sdk-to-your-podfile>

```
# Uncomment the next line to define a global platform
for your project
# platform :ios, '9.0'

source 'https://github.com/CocoaPods/Specs.git'
source
'https://github.com/LivePersonInc/iOSPodSpecs.git'

target '<YourApplicationName>' do
  # Comment the next line if you're not using Swift
  and don't want to use dynamic frameworks
  use_frameworks!

  # Pods for <YourApplicationName>
  pod 'LPMessagingSDK', '~>2.8.0.9'

  target '<YourApplicationName>Tests' do
    inherit! :search_paths
    # Pods for testing
  end

  target '<YourApplicationName>UITests' do
    inherit! :search_paths
    # Pods for testing
  end
end
```

4. Run the following command in the terminal under your project folder:

```
$ pod install
```

5. Incase you wish to upgrade to the latest SDK version and you have already ran 'pod install', Run the following command:

```
$ pod update
```

## Podfile SDK Links for various versions FYI

### SDK 2.5

Xcode 8:

- Cocoapods version: 2.5.4.0.1212
- Libraries version 2.5.4: <https://github.com/LP-Messaging/iOS-Messaging-SDK/releases/tag/2.5.4>

### SDK 2.7

Xcode 8:

- Cocoapods version: 2.7.1.0.1213
- Libraries version 2.7.1: <https://github.com/LP-Messaging/iOS-Messaging-SDK/releases/tag/2.7.1>

Xcode 9:

- Cocoapods version: 2.7.1.1.1215
- Libraries version 2.7.1 (using side branch): [https://github.com/LP-Messaging/iOS-Messaging-SDK/tree/SDK\\_2.7\\_Swift\\_4.0](https://github.com/LP-Messaging/iOS-Messaging-SDK/tree/SDK_2.7_Swift_4.0)

### SDK 2.8

Xcode 9 only:

- CocoaPods version (only): 2.8.3.0.1224
- Libraries version 2.8.3: <https://github.com/LP-Messaging/iOS-Messaging-SDK/releases/tag/2.8.3>

## Installation of iOS Libraries by Copying to Xcode Project

Copy all framework and bundle files into the project, including the bundle file. In project settings, navigate to the General tab, and add all Framework files to the Embedded Binaries section.

### Installation notes

In project settings, navigate to the Build Phases tab, and click the + button to add a New Run Script Phase. Add the script below in order to loop through the frameworks embedded in the application and remove unused architectures (used for simulator). This step is a workaround for known iOS issue <http://www.openradar.me/radar?id=6409498411401216> and is necessary for archiving your app before publishing it to the App Store.

If frameworks installed using CocoaPods, use the following script:

```
bash
"${SRCROOT}/Pods/LPMessagingSDK/LPMessagingSDK/LPInfra.framework/frameworks-strip.sh"
```

If frameworks installed using copy to Xcode project, use the following script:

```
bash
"${BUILT_PRODUCTS_DIR}/${FRAMEWORKS_FOLDER_PATH}/LPInfra.framework/frameworks-strip.sh"
```

## Manual Framework installation Notes

Follow the usual steps for adding the embedded binary **.frameworks** and **.bundle** files into the iOS app via Xcode. Check the [Video Link](#) for examples of how this can be done.

- Add SDK plugin with latest version

---- DO NOT RUN **cordova build ios** on CLI until you have been into XCODE! --  
-

- Open project workspace in XCODE
  - accept all recommend project settings
  - select project
  - add embedded binaries for the SDK and frameworks
  - **CLEAN PROJECT!**
  - **BUILD PROJECT!** == should pass & you will warnings about missing cordova libs as we have not "built in cordova" yet!
- go back to CLI
- run **cordova build ios** command which should now succeed
- run in xcode or CLI

if you get a build/run error about missing simulators, then edit this file -- **<your app folder>/platforms/ios/cordova/lib/start-emulator** and change the default iOS emulator to run or add iPhone 5s to your list of emulated devices

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## Android

The plugin itself does NOT include any copies of the Android SDK **aars** libraries. You should download the [latest version of the Android SDK from here on github](#).

<https://developers.liveperson.com/android-quickstart.html>

**BUT ALWAYS CHECK GITHUB RELEASES LINK ABOVE FOR THE LATEST VERSION**

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## Sample Apps Included

Within the **apps/** folder at the root of this repo you will find some sample apps demoing the plugin. Here is a breakdown.

### **apps/sampleapp01** -- iOS Only

Has been created as reference app using iOS frameworks.

This app does NOT include an Android application – refer to SampleApp03 for the latest Android example app.

Includes a basic iOS Cordova App with Messaging integration and the PhoneGap Push plugin installed – but not with Simulator as restrictions prevent this...you will need to run on physical device.

```
2017-04-20 22:48:45.853 SampleApp04[22023:499394] Push Plugin register called
2017-04-20 22:48:45.853 SampleApp04[22023:499394] PushPlugin.register: setting badge to false
2017-04-20 22:48:45.853 SampleApp04[22023:499394] PushPlugin.register: clear badge is set to 0
2017-04-20 22:48:45.853 SampleApp04[22023:499394] PushPlugin.register: better button setup
2017-04-20 22:48:45.858 SampleApp04[22023:499394] FCM Sender ID (null)
2017-04-20 22:48:45.858 SampleApp04[22023:499394] Using APNS Notification
2017-04-20 22:48:45.879 SampleApp04[22023:499115] Push Plugin register failed
```

### **apps/sampleapp03** -- Android -- Authentication and Push Plugin

- includes authentication for both platforms
- phone gap push plugin RC 2.0 for Android and iOS
  - working on Android

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## Api Reference



filename: **plugins/MessagingSDKPlugin/www/LPMessagingSDK.js**

This is where we expose the different function names within the wrapper to call the native code for starting, configuring a messaging conversation. In the current version there is just one function exposed which takes in an "action" arg for telling the native code what to do. You must also supply a successCallback js func / errorCallback js func / account id (clone or prod) + any arguments needed by the function.

## API Function definition

```
lp_conversation_api: function(action, args,
                              successCallback, errorCallback)
```

Supported values for **action** :

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\*\*\*\*\* **NEW IN v2.9.x**

\*\*\*\*\*

**"close\_conversation\_screen"**

sample call:

```
lpMessagingSDK.lp_conversation_api(
  'close_conversation_screen', [accountNumber],
  function (data) {
    var eventData = JSON.parse(data);
    console.log('@@@ js ... unique
close_conversation_screen SDK callback');
  },
  function (data) {
    var eventData = JSON.parse(data);
    console.log('@@@ js ... unique
```

```
close_conversation_screen SDK error callback');  
    }  
);
```

can be triggered if the callbacks you bind to trigger an error response and you want to close the conversation screen as a result and provide the user with instructions within the web layer.

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## "lp\_sdk\_init"

Must be called before trying to use any other methods. Requires the account number to be passed within **args** parameter

sample call...

```
var success = function(message) {  
    console.log("OnEvent JS: " + message);  
}  
  
var failure = function() {  
    console.log("Error calling lp_conversation_api  
Plugin");  
}  
  
lpMessagingSDK.lp_conversation_api("lp_sdk_init",  
["123456"], success, failure);
```

## "register\_pusher"

Used to register device tokens with the SDK for handling push notifications

- **api method** : **lpMessagingSDK.lp\_conversation\_api**

- **action** : 'register\_pusher'
- **args** : [accountId,deviceToken]
  - **deviceToken** should be obtained by your app using relevant cordova plugin
- Recommend this method is called within the success callback of **lp\_sdk\_init** to ensure SDK is ready to receive the token.

```
lpMessagingSDK.lp_conversation_api(
  "lp_sdk_init", [this.settings.accountId,
sdkConfig],
  function(data) {
    var eventData = JSON.parse(data);
    console.log("@@@ js ... unique lp_sdk_init
SDK callback");
    lpMessagingSDK.lp_conversation_api(
      "register_pusher",
      [app.settings.accountId,app.deviceToken],
      function(data) {
        //var eventData = JSON.parse(data);
        console.log("@@@ js ... unique
register_pusher SDK callback .."+data);
      },
      function(data) {
        // var eventData = JSON.parse(data);
        console.log("@@@ js ... unique
register_pusher SDK error callback ..."+data);
      }
    );
  },
  function(data) {
    var eventData = JSON.parse(data);
    console.log("@@@ js ... unique lp_sdk_init
SDK error callback");
  }
);
```

## "start\_lp\_conversation"

Used to open the Messaging conversation window and connect to LivePerson.

Includes support for authentication JWT token for implicit flow

```
var authenticationCode =  
"eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiIiR0TcyLTMTNTU1NS01NTUiLCJpc3MiOiJodHRwczovL2lkcc5saXZlcGVyY29uLm5ldCI6ImF1ZCI6ImFjYzpxYTU3MjIxNjc2IiwiaXhwIjozNTM0OTcxOTMwLCJpYXQiOiJlODNzE4OTk5NDIsIm5hbWUiOiJFaXRhbiJ9.Fh0sG-iu-  
VMZRFRbUNK0kEzb7Y1BXtQH0KaHL2y40y_c4mBvmQDC0YNWJ1ZEea  
yTNuLboYx6L8xEoC5xZIFnVv2N4a36BBU88fNuhe9Em2b5qNdVbdB  
tIJQoBY5ep502geAaCVA7A7oS8ysWVGn9CV4btH_D5sU2jGr3ml8y  
fJA"  
  
lpMessagingSDK.lp_conversation_api(  
    "start_lp_conversation",  
    [  
        "123456",  
        authenticationCode  
    ],  
    success,  
    failure);
```

**authenticationCode** is optional arg parameter. If omitted then the conversation will be **unauthenticated**

## "lp\_clear\_history\_and\_logout"

Used to clear the current user data and unregister the device from push notifications.

## PLEASE NOTE: Impact on Push Notifications

Calling this method will mean the device is no longer going to receive push notifications until the next user logs back in and opens the conversation screen to send the latest JWT token to the SDK and establish a connection. After that point the device will receive push notifications again for that user when not viewing the conversation screen.

- When the customer logs out of your app, call this method to clear the local device SDK history and unregister the device from push notifications.
- Then once the next user logs in, **remember to call `lp_sdk_init` before starting a new conversation for the next user when you supply the updated and relevant JWT token**
- see example below for doing this in the callback for logout ready for the next user.
- You must supply the account id for your LivePerson account number into this method

```
lpMessagingSDK.lp_conversation_api(  
    "lp_clear_history_and_logout",  
    [this.settings.accountId],  
    function(data) {  
        var eventData = JSON.parse(data);  
        console.log("@@@ js ... unique  
clearDeviceHistoryAndLogout SDK callback ...data =>  
"+data);  
        console.log("@@@ js ... post logout...now  
auto reinitialise the SDK for next user to save  
button press in demo!");  
        app.lpMessagingSdkInit();  
    },  
    function(data) {
```

```

        var eventData = JSON.parse(data);
        console.log("@@@ js ... unique
clearDeviceHistoryAndLogout SDK error callback
...data => "+data);
    }
};

```

- callback event name : **LPMessagingSDKClearHistoryAndLogout**

**"reconnect\_with\_new\_token"**

- **args** : [token]
  - ~~in that specific order!~~
  - ~~accountId is required for iOS version of the function~~

within your javascript **successCallback** function, you must listen for the specific **eventName** that tells you the SDK has detected that the customer JWT has expired and must be refreshed.

- Listen for the correct event in your **successCallback** method and call your relevant app function to get the new token

```

successCallback: function(data) {

    var eventData = JSON.parse(data);

    if (eventData.eventName ==
'LPMessagingSDKTokenExpired') {
        console.log("authenticated token has
expired...refreshing...");
        this.lpGenerateNewAuthenticationToken();
    }

},

```

- generate your new token calling your IDP / JWT service via javascript

```
lpGenerateNewAuthenticationToken: function() {  
    // code to generate new fresh JWT would go  
    here...  
    // this example uses a hard coded JWT which has  
    the new expiry time.  
    var jwt =  
    "eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJlQUxLVEFMSy1JR00xMjM0NTY3ODkwIiwiaXNzIjoiaHR0cHM6Ly93d3cuZGFsa3RhbgSuY28udWsiLCJleHAiOjE1MTQ3MTg2NzEwMDAsImVudCI6MTQ4NzE1OTMzMzAwMCwicGhvbmVfbnVtYmVyIjoiaKzEtMTAtMzQ0LTM3NjUzMzMiLCJscF9zZGVzIjpibeyJ0eXBFIjoiaY3RtcmluZm8iLCJpbmZvIjp7ImNzdGF0dXMioiJjYW5jZWxsZWQiLCJjdHlwZSI6InZpcCIsmNlc3RvbWVySWQiOiIxMzg3NjZBQyIsImJhbGFuY2UiOi00MDAuOTksInNvY2lhbElkIjoiaMTEyNTYzMjQ3ODAiLCJpbWVpIjoiaMzU0MzU0NjU0MzU0NTY4OCIsInVzZXJ0YW1lIjoiaXRlcjAwMCIsmNvbXBhbnlTaXplIjo1MDAsImFjY291bnR0YW1lIjoiaYmFuayBjb3JwIiwicm9sZSI6ImJyb2tlciIsImxhc3RQYXltZW50RGF0ZSI6eyJkYXkiOiJlLCJtb250aCI6MTAsInllYXIiOiJlMTR9LCJyZWdp3RyYXRpb25EYXRlIjp7ImRheSI6MjMsIm1vbnRoIjo1LCJ5ZWFiIjoiaMDEzfX19LHsidHlwZSI6InBlcnNvbmsiIiwicGVyc29uYWwiOnsiZmlycy3RuYW1lIjoiaSm9objc3IiwibGFzdG5hbWUiOiJCZWFKbGU3NyIsImFnZSI6eyJhZ2UiOiJM0LCJ5ZWFiIjoiaOX0TgwLCJtb250aCI6NCwiZGF5IjoiaNX0smNvbniRhY3RzIjpibeyJlbWFpbCI6ImpiZWFKbGU5OUBSaXZlcGVyc29uLmNvbSIsInBob25lIjoiaKzEgMjEyLTc4OC04ODc3In1dLCJnZW5kZXIiOiJNQXVFIn19XX0.i-PFEBjgXR-rEM30iGJAV-4l0P58wysMEZxyoYdw0CTpIkmfkXtnztfyYRNdaBkpaF1AmZvtgEBIFEYWLcSmcRWkmvnSUAKV0dv9QhR9tDbILsdyd-DEFB_RcmW8rXB7rWSoSJ4z3EMatpoC7CzaUrih8IycB2X4FuKuxL9m0g";  
  
    // pass the  
    lpMessagingSDK.lp_conversation_api(  
        "reconnect_with_new_token",  
        [jwt, app.settings.accountId],
```

```

        this.successCallback,
        this.errorCallback
    );
    console.log('lpGenerateNewAuthenticationToken
completed --> new jwt --> ', jwt);
},

```

- once you have the new token pass it back down into the native application using the following cordova API call

```

lpMessagingSDK.lp_conversation_api(
    "reconnect_with_new_token",
    [jwt, app.settings.accountId],
    this.successCallback,
    this.errorCallback
);

```

- The SDK will pass the token back to LivePerson using the **reconnect** method of the SDK to refresh the token and continue authenticated conversations.

## "set\_lp\_user\_profile"

Used to send **unauthenticated** customer information to the agent where authenticated equivalents are not being sent.

**PLEASE NOTE** : unclear which of these values are still being used on server side so subject to change/deprecation in subsequent versions.

**args** array parameter mapping:

- **0** : accountId : "123456"
- **1** : first name : "John"



- 2 : last name : "Doe"
- 3 : nickname : "JD"
- 4 : profile image url : "https://s-media-cache-ak0.pinimg.com/564x/a2/c7/ee/a2c7ee8982de3bae503a730fe4562cf9.jpg"

(Android Deprecated in v2.5 – value will be ignored – send null if not applicable)

(iOS still supported in v2.5)

- 5 : customer phone number : "555-444-12345"

(iOS Only)

- 6 : uid : "UID123145"
- 7 : employeeID : "employeeId123123123"

^ Both of the above seemingly not being read on server side for iOS so use with caution.

```
lpMessagingSDK.lp_conversation_api(
    'set_lp_user_profile',
    [
        accountId,
        'John',
        'Doe',
        'NickName:JD',
        'https://s-media-cache-ak0.pinimg.com/564x/a2/c7/ee/a2c7ee8982de3bae503a730fe4562cf9.jpg',
        'tel:555-444-12345',
        'uid_5678',
        'employeeId_1234'
    ],
    function(data) {
```

```

    var eventData = JSON.parse(data);
    console.log('@@@ js ... unique
set_lp_user_profile SDK callback');
  },
  function(data) {
    var eventData = JSON.parse(data);
    console.log('@@@ js ... unique
set_lp_user_profile SDK error callback');
  }
);

```

## Sending Secure Information via JWT tokens

If you wish to send secure, authenticated information about the customer to your agent, it should be encoded and encrypted within your JWT token

<https://s3-eu-west-1.amazonaws.com/ce-sr/CA/security/Authenticated+Interactions+with+oAuth+2.0.pdf>

For a list of supported engagement attributes within a JWT token payload, see the following example JWT:

```

{
  "sub": "MY_UNIQUE_CUSTOMER_IDENTIFIER_GOES_HERE",
  "iss": "https://www.talktalk.co.uk",
  "exp": 1514718671,
  "iat": 1487159337,
  "phone_number": "+1-10-344-3765333",
  "lp_sdes": [
    {
      "type": "ctmrinfo",
      "info": {
        "cstatus": "cancelled",
        "ctype": "vip",
        "customerId": "138766AC",

```

```

    "balance": -400.99,
    "socialId": "11256324780",
    "imei": "3543546543545688",
    "userName": "user000",
    "companySize": 500,
    "accountName": "bank corp",
    "role": "broker",
    "lastPaymentDate": {
      "day": 15,
      "month": 10,
      "year": 2014
    },
    "registrationDate": {
      "day": 23,
      "month": 5,
      "year": 2013
    }
  },
  {
    "type": "personal",
    "personal": {
      "firstname": "AN",
      "lastname": "Other",
      "age": {
        "age": 34,
        "year": 1980,
        "month": 4,
        "day": 15
      },
      "contacts": [
        {
          "email": "another@liveperson.com",
          "phone": "+1 212-788-8877"
        }
      ],
      "gender": "MALE"
    }
  }
}

```

```
]
}
```

---

## HOWTO : Update iOS Frameworks in your existing app

This video shows step by step how to replace the existing iOS frameworks and bundles in your app when their is a new version / hotfix released and you do not want to have to remove and add the plugin back into the app again...

[Video Link](#)

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## Cordova Plugin Callback Names

The following callbacks are fired from the iOS / Android apps back up into the Cordova plugin for processing / actions in Javascript

Register your Global Async Callback Handler

### API Function definition

```
lpMessagingSDK.lp_register_event_callback:
function(args, successCallback, errorCallback)
```

- register your global async callback handler for monitoring these events.

```
lpMessagingSDK.lp_register_event_callback(
    [accountId],
    this.globalAsyncEventsSuccessCallback,
```

```
this.globalAsyncEventsErrorCallback  
);
```

## SuccessCallback Event Object

In your js successCallback function you will receive a **data** object that must be parsed from a string into JSON

```
var eventData = JSON.parse(data);
```

This object has an **eventName** property which matches the above callbacks we support.

```
eventData.eventName
```

There may be other additional data points depending on the callback and context.

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## iOS + Android Callbacks

### Immediate responses

Certain events are now returning immediate responses by triggering the respective, unique success/error callbacks passed into certain API functions.

**IpMessagingSDK.Ip\_conversation\_api** with the following **actions** will return success/failure ASAP.

- **action:** **start\_ip\_conversation** | **eventName:** **IPMessagingSDKStartConversation**

- based on the SDK API call not failing – does not mean the conversation screen has loaded without errors etc, just means we called the method successfully.
- **action:** `set_lp_user_profile` | **eventName:** `LPMessagingSDKSetUserProfile`
  - called the API method and did/did not throw errors as a result.
- **action:** `lp_sdk_init` | **eventName:** `LPMessagingSDKInit`
  - SDK has initialised successfully based on calling the method and not throwing any errors.
- **action:** `lp_clear_history_and_logout` | **eventName:** `LPMessagingSDKCLEARHistoryAndLogout`
  - SDK has cleared device history and unregistered push notifications for the device.
- **action:** `register_pusher` | **eventName:** `LPMessagingSDKRegisterLpPusher`
  - successfully registered the push token via the API call. **Should only be called once `lp_sdk_init` has succeeded.** Suggest triggering within the success callback of `lp_sdk_init`
  - Refer to `register_pusher` section for exact details, usage and implications

## Triggering asynchronously

- This will be the single handler for all the following async events
- example function that JSON parses the data to get the `eventData.eventName` property listed below

```
globalAsyncEventsSuccessCallback: function(data) {
    var eventData = JSON.parse(data);
    console.log(
        '@@@ globalAsyncEventsSuccessCallback --> ' +
data
    );
};
```

```

        if (eventData.eventName ==
'LPMessagingSDKTokenExpired') {
            console.log("@@@ authenticated token has
expired...refreshing...");
            app.lpGenerateNewAuthenticationToken();
        }
    },

```

**eventData.eventName** values listed below. additional **eventData** properties are indented

- "LPMessagingSDKCustomButtonTapped" (iOS Only)
- "LPMessagingSDKAgentDetails"
  - **agentName** : String
- "LPMessagingSDKActionsMenuToggled" (iOS Only)
  - **toggled** : true|false
- "LPMessagingSDKHasConnectionError" (iOS Only)
  - **error** : String
- "LPMessagingSDKCSATScoreSubmissionDidFinish"
- "LPMessagingSDKAuthenticationFailed"
  - **error** : String
- "LPMessagingSDKTokenExpired"
  - **accountId** : string
- "LPMessagingSDKError"
  - **error** : String
- "LPMessagingSDKAgentIsTypingStateChanged"
  - **isTyping** : true|false
- "LPMessagingSDKConversationStarted"
  - **conversationID** : string
- "LPMessagingSDKConversationEnded"
  - **conversationID** : string
- "LPMessagingSDKConversationCSATDismissedOnSubmission"
  - **conversationID** : string
- "LPMessagingSDKConnectionStateChanged"

- `isReady` : true|false
- `"LPMessagingSDKOffHoursStateChanged"`
  - `isOffHours` : true|false
- `"LPMessagingSDKConversationViewControllerDidDismiss"` (iOS only)

Immediate response callback execution:

- `"LPMessagingSDKInit"`
- `"LPMessagingSDKClearHistoryAndLogout"`
- `"LPMessagingSDKSetUserProfile"`
- `"LPMessagingSDKReconnectWithNewToken"`
- `"token"` : new jwt
- `"LPMessagingSDKRegisterLpPusher"`
- `"deviceToken"` : device token supplied
- `"LPMessagingSDKStartConversation"`
  - `"type"` : "authenticated" | "unauthenticated"

Triggering asynchronously -- register your global async callback handler for monitoring these events.

- `"LPMessagingSDKObseleteVersion"` (iOS Only)
- `"LPMessagingSDKCsatDismissed"` (Android Only)

!!! Not currently implemented/applicable in callbacks!!!

- `"LPMessagingSDKAgentAvatarTapped"`
- `"LPMessagingSDKCSATCustomTitleView"`

Refer to native documentation and if you are missing a specific callback please let us know!