

Cordova Messaging Plugin

Current Version: v1.4

v1.4 Release Notes:

Are in the [/plugins/v1.4/MessagingSDKPlugin/README.md](#) file

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

Repo has been restructured. The various versions of the plugin live here:

[/plugins/](#)

The latest release v1.4 is here

[/plugins/v1.4/MessagingSDKPlugin](#)

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

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

```
cd apps/sampleapp01
cordova plugin remove com.liveperson.messagingSDK
cordova plugin add
../../plugins/v1.4/MessagingSDKPlugin
```

iOS Install

You will still need to 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.

SDK Frameworks and Bundle Install summary

- 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 PROJET!** == 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

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](#). Once downloaded, follow the instructions in the **/docs** folder for adding the Messaging SDK to your Android Cordova app in Android studio.

Android v2.1.1 **aars** files are located in **/sdk-libs/android/v2.1.1** for your convenience **BUT ALWAYS CHECK GITHUB RELEASES LINK ABOVE**

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/sampleapp03](#) -- Authentication and Push Plugin

- includes authentication for both platforms
- phone gap push plugin RC 2.0 for Android and iOS
 - working on Android
 - not yet tested on iOS due to account limitations TBC.
- Android SDK v2.1.1
- iOS SDK v2.1.2

[apps/sampleapp01](#)

- Combined Android and iOS Cordova app – running SDK 2.1.2 on iOS and 2.1.0 on Android
- reference the [apps/sampleapp01/www/js/index.js](#) for examples of configuring the app in javascript to call the Cordova plugin and wrapper APIs

[apps/sampleapp02-ios](#)

- iOS only Cordova app – running SDK 2.1.2 on iOS
- reference the [apps/sampleapp02-ios/www/js/index.js](#) for examples of configuring the app in javascript to call the Cordova plugin and wrapper APIs

Cordova API Wrapper file:

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` :

`"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.eyJzdWIiOiIrOTcyLTMTNTU1NS01NTUiLCJpc3MiOiJodHRwczovL2lkYyZlcGVyYyY9.c29uLm5ldCIsImF1ZCI6ImFjYzpxYTUzMjIxNjc2IiwiaWF0IjoxNDM0MDTcm0TMwLCJpYXQiOjE0NzE4OTk5NDIsIm5hbWUiOiJFaXRhbiJ9.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.

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**,**accountId**]
 - **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.eyJzdWIiOiJlUQUx
LVEFMScy1JRC0xMjM0NTY3ODkwIiwiaXNzIjoiaHR0cHM6Ly93d3cu
dGFsa3RhbgSuY28udWsiLCJleHAiOjE1MTQ3MTg2NzEwMDAsImIhd
CI6MTQ4NzE1OTMzNzAwMCwicGhvbmVfbnVtYmVyIjoikzEtMTAtMz
Q0LTM3NjUzMzMiLCJscF9zZGVzIjpbeyJ0eXBliIjoiiY3RtcmluZm8
iLCJpbmZvIjpb7ImNzdGF0dXMiOiJjYW5jZWxsZWQiLCJjdHlwZSI6
InZpcCIiImN1c3RvbWVySWQiOiIiXmZg3NjZBQyIsImJhbGFuY2UiOi
i00MDAuOTksInNvY2lhbElkIjoiiMTEyNTYzMjQ3ODAiLCJpbWVpIj
oiMzU0MzU0NjU0MzU0NTY4OCIsInVzZXJ0YW1lIjoiiXNlcjAwMCI
sImNvbXBhbnlTaXplIjoiiMDAsImFjY291bnR0YW1lIjoiiYmFuayBj
b3JwIiwicm9sZSI6ImJyb2tldCIiImxhc3RQYXltZW50RGF0ZSI6e
yJkYXkiOiJlLCJtb250aCI6MTAsInllYXIiOiJlMTR9LCJyZWdpc3
RyYXRpb25EYXRlIjpb7ImRheSI6MjMsIm1vbnR0IjoiiLCJ5ZWFiYj
yMDEzfX19LHsidHlwZSI6InBlcnNvbWFsIiwicG9yY29uYmwiOjnsi
Zmlyc3RuYW1lIjoiiSm9objc3IiwibGFzdG5hbWUiOiJlJCZWfkbGU3N
yIsImFnZSI6eyJhZ2UiOiJlM0LCJ5ZWFiYjIjoiiOX0TgwLCJtb250aCI6NC
wiZGF5IjoiiNX0sImNvbRnRhY3RzIjpbeyJlbWVpbiCI6ImpiZWfkbGU
50UBsaXZlcGVyc29uLmNvbSIiImNvbSI6ImNvbSIiImNvbSI6ImNvbSI
InBob25lIjoiiKzEgMjEyLTc4OC04
ODc3In1dLCJnZW5kZXIiOiJlNQUxXIn19XX0.i-PFEBjgXR-
rEM30iGJAV-
4l0P58wysMEZxyoYdw0CTpIkmfkXtnztfyYRNdaBkpaF1AmZVtqEB

```

```
IFEYWLcSmcRWkMvnSUAKV0dv9QhR9tDbILsdyd-  
DEFB_RcmW8rXB7rWSoSJa4z3EMatpoC7CzaUrih8IycB2X4FuKuxL  
9m0g";
```

```
// 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"
- **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",  
    [  
        "123456",  
        "John",  
        "Doe",  
        "JD",  
        "https://s-media-cache-  
ak0.pinimg.com/564x/a2/c7/ee/a2c7ee8982de3bae503a730fe4562cf9.jpg",  
        "555-444-12345"  
    ],  
    success,  
    failure  
);
```

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": "TALKTALK-ID-1234567890",
  "iss": "https://www.talktalk.co.uk",
  "exp": 1514718671000,
  "iat": 1487159337000,
  "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": "John99",
        "lastname": "Beadle99",
        "age": {
            "age": 34,
            "year": 1980,
            "month": 4,
            "day": 15
        },
        "contacts": [
            {
                "email": "jbeadle99@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...

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.

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.

LPMessagingSDK.lp_conversation_api with the following **actions** will return success/failure ASAP.

- **action:** **start_lp_conversation** | **eventName:** **LPMessagingSDKStartConversation**
 - 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)

NEW in v1.4

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!