

LiveEngage Enterprise In-App Messaging SDK Deployment Guide: Android v.2.0

[Quick Start](#)

[Prerequisites](#)

[Step 1: Download and unzip the SDK](#)

[Step 2: Configure project settings to connect LiveEngage SDK](#)

[Step 3: Code integration for basic deployment](#)

[Advanced Configurations](#)

[SDK Initialization and Lifecycle](#)

[Initialization](#)

[LivePerson Callbacks Interface](#)

[Authentication](#)

[Conversation Lifecycle](#)

[Notifications](#)

[User Data](#)

[Logs and Info](#)

[Methods](#)

[Initialize \(Deprecated\)](#)

[Initialize \(with SDK properties object\)](#)

[showConversation](#)

[showConversation \(with authentication support\)](#)

[hideConversation](#)

[getConversationFragment](#)

[getConversationFragment \(with authentication support\)](#)

[reconnect](#)

[setUserProfile](#)

[setUserProfile \(deprecated\)](#)

[registerLPPusher](#)

[unregisterLPPusher](#)

[handlePush](#)

[getSDKVersion](#)

[setCallback](#)

[removeCallBack](#)

[checkActiveConversation](#)

[checkAgentID](#)

[markConversationAsUrgent](#)

[markConversationAsNormal](#)

[checkConversationIsMarkedAsUrgent](#)

[resolveConversation](#)

[shutDown](#)

[shutDown \(deprecated\)](#)

[ClearHistory](#)

[logout](#)

[Interface and class definitions](#)

[AgentData](#)

[InitLivePersonProperties](#)

[ConsumerProfile](#)

[Callbacks Index](#)

[LivePersonCallback](#)

[Error indication](#)

[Token Expired](#)

[Conversation started](#)

[Conversation resolved](#)

[Connection state has changed](#)

[Agent avatar tapped](#)

[Agent details changed](#)

[Agent typing](#)

[CSAT Screen dismissed](#)

[CSAT Screen submitted](#)

[Conversation marked as urgent](#)

[Conversation marked as normal](#)

[Offline Hours Changes](#)

[LogoutLivePersonCallback](#)

[ICallback](#)

[InitLivePersonCallBack](#)

[ShutDownLivePersonCallback](#)

[Configuring the SDK](#)

[Attributes](#)

[Brand](#)

[Brand Message Bubble - the first brand message](#)

[Agent Message Bubbles](#)

[Consumer Bubbles](#)

[System messages](#)

[Unread messages indicator Bubbles](#)

[Survey screen](#)

[Message Edit Text](#)

[Connection status bar](#)

[In page navigation - Scroll down indicator](#)

[Photo Sharing](#)

[General Style](#)

[Conversation Activity Style - \(activity mode only!\)](#)

[Accessibility](#)

[Miscellaneous](#)

[Deprecated Attributes](#)

[Configuring the message's EditText](#)

[ProGuard Configuration \(Android only\)](#)

[String localization in SDK](#)

[Modifying String](#)

[Modifying resources](#)

[Plural String Resource Example](#)

[Timestamps Formatting](#)

[Off Hours](#)

[Date & Time](#)

[Timezone](#)

[Bubble timestamp](#)

[Separator timestamp](#)

[Resolve message](#)

[CSAT Behavior](#)

[Overview](#)

[Show CSAT flow](#)

[Dismiss CSAT](#)

[CSAT UI content](#)

[agentView \(avatar and agent name\)](#)

[ratingQuestionView \(stars\)](#)

[resolutionConfirmationView \(yes/no\)](#)

[Photo Sharing - Beta](#)

[Overview](#)

[Enable Photo Sharing](#)

[LiveEngage Configuration](#)

[Enable Push Notifications](#)

[Appendix](#)

[Security](#)

[Dependencies](#)

[Open Source List](#)

[Localization Strings](#)

[Demo Project](#)

[Project structure explained](#)

[MainActivity class](#)

[setCallBack method](#)

[initActivityConversation method](#)

[openFragmentContainer method](#)

[FragmentContainerActivity class](#)

[Push package](#)

[branding.xml](#)

Quick Start

The LivePerson In-App Messaging SDK provides brands with a simple, yet enterprise-grade and secure in-app messaging solution. Through in-app messaging, brands will foster connections with their customers and increase app engagement and retention.

This Quick Start will quickly get you up and running with a project powered by LivePerson. When you're done, you'll be able to send messages between an Android device and LiveEngage.

Prerequisites

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

- LiveEngage account with messaging enabled
- **Embeddable library for AAR**: Binary distribution of an Android Library Project
- **Installers**: Gradle

Note: For information on supported operating systems and devices, refer to [System Requirements](#).

Step 1: Download and unzip the SDK

Follow the steps below to download and unzip the

1. Download the latest Messaging SDK from the following link: [SDK Repository](#).
2. Extract the ZIP file to a folder on your computer.

The downloaded package should contain the following three items:

- LP_Messaging_SDK/lp_messaging_sdk - Module that should be added to your project. This module contains the following:
 - LivePerson.java - Main entry point for the Messaging SDK
 - Resources (.aars files)
- SampleApp-Source - demonstrate how to use the Messaging SDK.
- SampleApp-APK - sample app installation file.

Step 2: Configure project settings to connect LiveEngage SDK

Follow the steps below to configure the project settings to connect to the SDK.

1. Import the downloaded lp_messaging_sdk module into your project.
 - In the Android Studio menu bar, select: **File** → **New** → **Import module**.

- Navigate to the folder where you extracted the SDK project. Navigate to the `lp_messaging_sdk` module, and click **Finish**.
2. Add the following lines to the `build.gradle` of your app :
- `compileSdkVersion` and `buildToolsVersion` (should be at least Version 23).
 - Add the following code under the Android section:

```
repositories {  
    flatDir {  
        dirs project(':lp_messaging_sdk').file('aars')  
    }  
}
```

3. Under the Dependencies section, add the following line:

```
compile project(':lp_messaging_sdk')
```

Example: Build.gradle file

```
apply plugin: 'com.android.application'  
  
android {  
    compileSdkVersion 24  
    buildToolsVersion "24.0.3"  
  
    repositories {  
        flatDir {  
            dirs project(':lp_messaging_sdk').file('aars')  
        }  
    }  
}
```



```

}

defaultConfig {
    applicationId "xxx"
    minSdkVersion xx
    targetSdkVersion xx
    versionCode 1
    versionName "1.0"
}

buildTypes {
    release {
        minifyEnabled false
        proguardFiles getDefaultProguardFile('proguard-android.txt'),
'proguard-rules.pro'
    }
}
}

dependencies {
    compile project(':lp_messaging_sdk')
}

```

Step 3: Code integration for basic deployment

1. Add the following permission to your app's AndroidManifest.xml file:

```
<uses-permission android:name="android.permission.INTERNET" />
```

```
<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
```

```
<uses-permission android:name="android.permission.VIBRATE"/>
```

2. Add the following imports to your class imports section:

```
import com.liveperson.api.LivePersonCallback;
```

```
import com.liveperson.infra.InitLivePersonProperties;
```

```
import com.liveperson.infra.callbacks.InitLivePersonCallBack;
```

```
import com.liveperson.messaging.TaskType;
```

```
import com.liveperson.messaging.model.AgentData;
```

```
import com.liveperson.messaging.sdk.api.LivePerson;
```

3. Initialize the Messaging SDK

You can initialize the SDK in your Activity before showing LivePerson's Activity/Fragment, but it is recommended to initialize the SDK once, in your app's Application class.

```
String brandID = "YourLivepersonAccountIdString";

String appID = "your app package name"

LivePerson.initialize(MainActivity.this, new InitLivePersonProperties(brandID, appID,
new InitLivePersonCallBack() {

    @Override

    public void onInitSucceed() {

    }

    @Override

    public void onInitFailed(Exception e) {

    }

})
```

```
});
```

Element	Description
brandID	Your LivePerson account ID. If you don't have one, please contact your LivePerson representative.
appID	Your app id, used for registering LP pusher service.
onInitSuccess	Callback that indicates the init process has finished successfully.
onInitFailed	Callback that indicates the init process has failed.

Example implementation:

```
LivePerson.initialize(context, new InitLivePersonProperties(brandID, appID, new
InitLivePersonCallback() {

    @Override

    public void onInitSucceed() {

        initFragment();

        LivePerson.setUserProfile(appId, firstName, lastName, phone);

    }

    @Override

    public void onInitFailed(Exception e) {

        Toast.makeText(MainActivity.this, "Init Failed",
Toast.LENGTH_SHORT).show();

    }

});
```

4. Show conversation screen.

The SDK supports two operation modes:

- Activity mode
- Fragment mode

Activity mode

Activity mode implements the toolbar that displays the agent name the consumer is talking with. The 'Is Typing' indicator displays when the agent is typing and the menu button. In addition to this, when using the activity mode, the SDK deals with initializing the SDK.

To open conversation window in separate activity. This will start a new conversation activity:

```
LivePerson.showConversation(getActivity());
```

Using this method the SDK implements the controls on the action bar.

Fragment mode

In fragment mode the SDK returns the conversation fragment to the caller that needs to be placed inside a container. Also, the caller is responsible for initializing the SDK and, if needed, implementing a toolbar or other indicators according to the provided SDK [callbacks](#).

Note: Ensure that the init process finished successfully. These should be called from the [onInitSucceed\(\)](#) callback.

To open conversation window in a fragment: This returns a conversation fragment to be placed in a container in your activity:

```
LivePerson.getConversationFragment();
```

When using fragment mode, you should use the provided SDK callbacks in your app in order to implement functionalities such as menu items, action bar indications, agent name, and typing indicator.

Advanced Configurations

SDK Initialization and Lifecycle

Initialization

Add the code below to initialize the SDK:

```
String brandID = "Your-Liveperson-Account-Id-String";

String appID = "your-app-package-name"

LivePerson.initialize(context, new InitLivePersonProperties( brandID, appID,

    new InitLivePersonCallBack() {

        @Override

        public void onInitSucceed() {

        }

        @Override

        public void onInitFailed(Exception e) {

        }

    }

);
```

Element	Description
brandID	Your LivePerson account ID. If you don't have one, please contact your LivePerson representative.
appID	Your app ID, used for registering LP pusher service.
onInitSuccess	Callback that indicates the init process has finished successfully.
onInitFailed	Callback that indicates the init process has failed. <i>Note: You can call initialize before showing LivePerson's Activity/Fragment, but it is recommended to initialize the SDK in your app's Application class.</i>

Once initialization is completed (onInitSucceed), you can call LivePerson methods.

The SDK supports two operation modes: Activity and Fragment. For more information about each mode, refer to [Step 3: Code integration for basic deployment](#).

To start LivePerson's Activity mode:

```
LivePerson.showConversation(Activity activity);
```

To start LivePerson's Fragment mode: (Attach the returned fragment to a container in your activity) :

```
LivePerson.getConversationFragment();
```

When using fragment mode, you could use the provided SDK callbacks in your app in order to implement functionalities such as menu items, action bar indications, agent name, and typing indicator.

LivePerson Callbacks Interface

The SDK provides a callback mechanism to keep the host app updated on events related to the conversation.

To register the callback call:

```
LivePerson : public static void setCallback(final LivePersonCallback listener)
```

To remove a callback:

```
LivePerson : public static void removeCallback()
```

Click [here](#) for more information.

Shut Down

Close LivePerson Messaging SDK- Uninitialized SDK without cleaning data.

```
public static void shutDown(final ShutDownLivePersonCallback shutdownCallback)
```

Click [here](#) for more information.

Logout

Close LivePerson Messaging SDK- Clear LivePerson Messaging SDK data and unregistering push.

```
public static void logOut(final Context context, final String brandId,
final String appId, final LogoutLivePersonCallback logoutCallback)
```

Click [here](#) for more information.

Authentication

For users of OAuth 2.0 for customer authentication, the following functions apply:

To start LivePerson's Activity mode:

```
LivePerson : LivePerson.showConversation(Activity activity, String
authKey);
```

To start LivePerson's Fragment mode: (Attach the returned fragment to a container in your activity):

```
LivePerson : LivePerson.getConversationFragment(String authKey);
```

Once Authentication key is expired, you will be notified with callback "[void onTokenExpired\(\)](#)".

To re-connect with new Authentication key:

```
LivePerson : public static void reconnect\(String authKey\)
```

Note: errors while trying to connect will call callback : void onError(TaskType type, String message);

UI

To determine the layout of messaging within the app, you can utilize various actions to control the behavior and UI such as menus, typing indication, etc.

LivePerson callbacks:

```
void onAgentTyping(boolean isTyping);
void onAgentDetailsChanged(AgentData agentData);
void onCsatDismissed();
void onCsatSubmitted(String conversationId);
void onConversationMarkedAsUrgent();
void onConversationMarkedAsNormal();
void onOfflineHoursChanges(boolean isOfflineHoursOn);
void onAgentAvatarTapped(AgentData agentData);
```

Conversation Lifecycle

During the course of the conversation, consumers can take several actions such as Mark as urgent to receive a faster service, or Resolve conversation to let your agents know they have received their answers.

LivePerson API:

```
public static void checkActiveConversation(final ICallback<Boolean,
Exception> callback)
public static void checkConversationIsMarkedAsUrgent(final
ICallback<Boolean, Exception> callback)
public static void checkAgentID(final ICallback<AgentData, Exception>
callback)
public static void markConversationAsUrgent()
public static void markConversationAsNormal()
public static void resolveConversation()
public static boolean clearHistory()
```

Note: Click [here](#) for more information.

Also via Callbacks:

```
void onConversationStarted();
void onConversationResolved();
void onConnectionChanged(boolean isConnected);
```

Note: Click [here](#) for more information.

Notifications

Push and local notifications are a key factor that make the experience better for consumers - they never have to stay in your app or keep the window open as they will get a proactive notification as soon as a reply or notice is available.

Note: In order to enable push notifications, you must also configure them within the LiveEngage UI. [See instructions here](#).

To implement push notifications on the client side:

1. Get your app's AppKey from [Google GCM](#) or [Google FCM](#) and set it in the LiveEngage backend, as explained [here](#), to identify your app by LiveEngage.
2. On every app launch get the GCM Token from your device and register it on the LiveEngage push service using the [registerLPPusher\(\)](#) API call so it knows which device should get each push message.

3. Upon receiving a push message to your app, [handle](#) it so it is displayed to the customer.

```
public class MyGcmListenerService extends GcmListenerService {

    /**
     * Called when message is received.
     *
     * @param from SenderID of the sender.
     * @param data Data bundle containing message data as key/value pairs.
     *           For Set of keys use data.keySet().
     */
    @Override
    public void onMessageReceived(String from, Bundle data) {

        // Sends the message into the SDK

        LivePerson.handlePush(this, data, LpAccount, true);
    }
}
```

User Data

Pass and display consumer information to agents, and agent information to consumers. See more information about each method [here](#).

```
public static void setUserProfile(ConsumerProfile profile)
public static void checkAgentID(final ICallback<AgentData, Exception>
callback)
```

Logs and Info

Upon errors, we send logs include different severity levels of errors and warnings.

Methods

Name	Description
<u>Initialize</u> (Deprecated)	Initialize the resources required by the SDK.
<u>Initialize</u> (with SDK properties object)	Initialize the resources required by the SDK with properties object.
<u>showConversation</u>	Display the messaging activity.
<u>showConversation</u> (with authentication support)	Display the messaging activity with the addition of authentication support.
<u>hideConversation</u>	Hide the conversation activity.
<u>getConversationFragment</u>	Get the conversation fragment.
<u>getConversationFragment</u> with authentication support	Get the conversation fragment with the addition of authentication support.
<u>reconnect</u>	Reconnect with new authentication key.
<u>setUserProfile</u>	Take custom parameters about the consumer as an input, set them for the messaging agent, and attach them to the transcript.
<u>setUserProfile</u> (Deprecated)	Take custom parameters about the consumer as an input, set them for the messaging agent, and attach them to the transcript.
<u>registerLPPusher</u>	Register to LivePerson push services.
<u>unregisterLPPusher</u>	Unregister from LivePerson push services.
<u>handlePush</u>	Receive all incoming push messages in a single function.

<u>getSDKVersion</u>	Return the SDK version.
<u>setCallback</u>	Get events from SDK - need to implement LivePersonCallback .
<u>removeCallBack</u>	Stop getting events from the SDK.
<u>checkActiveConversation</u>	Check whether there is an active conversation.
<u>checkAgentID</u>	Return agent data such as, first name, last name, email, avatarURL, through callback.
<u>markConversationAsUrgent</u>	Mark the current conversation as urgent.
<u>markConversationAsNormal</u>	Mark the current conversation as normal.
<u>checkConversationIsMarkedAsUrgent</u>	Check whether the current conversation is marked as urgent.
<u>resolveConversation</u>	Resolve the current conversation.
<u>shutDown</u>	Shut down the SDK.
<u>shutDown</u> (Deprecated)	Shut down the SDK.
<u>clearHistory</u>	Clear all conversations from device.
<u>logOut</u>	Logout from the SDK - when all user data should be removed.

Initialize (Deprecated)

<i>public static void initialize (Context context, String brandId, InitLivePersonCallBack initCallBack)</i>	
context	A context from the host app
brandId	An account ID
initCallBack	An InitLivePersonCallBack implementation

To allow user interaction, the Messaging Mobile SDK must be initiated. This API initializes the resources required by the SDK. All subsequent API calls, except to the `handlePush`, assume that the SDK has been initialized.

When the conversation screen is displayed, the server connection for messaging will be established. If a user session is already active and an additional SDK init call is made, it will be ignored and will not start an additional session.

Note: This method was deprecated - please use the new method below.

Initialize (with SDK properties object)

<i>public static void initialize (Context context, InitLivePersonProperties initProperties)</i>	
context	A context from the host app
<i>initProperties</i>	An object with all the properties needed to initialize the SDK

To allow user interaction, the Messaging Mobile SDK must be initiated. This API initializes the resources required by the SDK; all subsequent API calls. Except for the `handlePush`, assume that the SDK has been initialized.

When the conversation screen is displayed, the server connection for messaging will be established. If a user session is already active and an additional SDK init call is made, it will be ignored and will not start an additional session. This method gets `InitLivePersonProperties`, which includes the properties needed for the init phase of the SDK.

showConversation

<i>public static boolean showConversation(Activity activity)</i>	
activity	The calling activity

The *showConversation* API displays the messaging screen as a new activity with the conversation fragment. The consumer can then start or continue a conversation. The conversation screen is controlled entirely by the SDK.

This method returns a boolean value to indicate success or failure in opening the messaging screen. If the operation is successful, this method returns *true*, else it returns *false*.

Initiating the conversation screen opens the webSocket to the LivePerson Messaging Server.

showConversation (with authentication support)

<i>public static boolean showConversation(Activity activity, String authenticationKey)</i>	
activity	The calling activity
authenticationKey	The authentication key

Same as above with the addition of authentication support. You should use this alternative if you know your system implementation involves an authentication step. Usually this means that the LivePerson backend will verify the authentication token sent by the SDK with your system servers. If the key cannot be verified on your company's backend servers, this call will fail.

hideConversation

<i>public static void hideConversation(Activity activity)</i>	
activity	The calling activity

The *hideConversation* API hides the conversation activity. The conversation screen is shown again by calling Start Conversation.

Notes:

- *Hiding the conversation closes the websocket.*
- *When using the SDK's activity, the back button performs the same function.*

getConversationFragment

```
public static Fragment getConversationFragment();
```

The *getConversationFragment* method creates and return the conversation fragment.

Note: This API does not show the actual screen, but only creates the fragment. Your implementation needs to handle when and how to show it.

getConversationFragment (with authentication support)

```
public static Fragment getConversationFragment(String authKey)
```

authKey	The authentication key
---------	------------------------

Same as above with the attention of authentication support. You should use this alternative if you know your system implementation involves an authentication step. Usually this means the LivePerson backend will verify the authentication token sent by the SDK with your system servers. If the key cannot be verified, or your backend isn't set up with the LivePerson backend, this call will fail.

reconnect

```
public static void reconnect(String authKey)
```

authKey	The authentication key
---------	------------------------

Reconnect with a new authentication key. When connecting with an authentication key, the connection may be closed once the token is expired. When this happens, the [onTokenExpired](#) callback method is called. In this case, the application needs to obtain a fresh key and reconnect by calling the *reconnect* method.

setUserProfile

<code>public static void setUserProfile(ConsumerProfile profile)</code>	
profile	The user's profile

The *setUserProfile* API takes custom parameters about the consumer as an input and sets it to be displayed on the messaging Agent Workspace consumer transcript. This can be set at any time either before, after, or during a messaging session.

setUserProfile (deprecated)

(Deprecated. Please use the [setUserProfile](#) (*String firstName*, *String lastName*, *String phone*) method above).

<code>public static void setUserProfile(<i>String appId</i>, <i>String firstName</i>, <i>String lastName</i>, <i>String phone</i>)</code>	
appId	The host app ID
firstName	User's first name
lastName	User's last name
phone	User's phone

The *setUserProfile* API takes custom parameters about the consumer as an input and sets it to be displayed on the messaging Agent Workspace consumer transcript. This can be set at any time either before, after, or during a messaging session.

registerLPPusher

<i>public static void registerLPPusher(String brandId, String appId, String gcmToken)</i>	
brandId	The account Id (e.g. 652838922).
appId	The host app Id (e.g. com.liveperson.myApp).
gcmToken	The GCM Token . Usually used to pass the Google provided token. However, this parameter can contain any string value.

Note: If you use the gcmToken as a custom value, you need to handle the mapping between this custom value and the actual gcm token in your server.

unregisterLPPusher

<i>public static void unregisterLPPusher(String brandId, String appId)</i>	
brandId	The account ID.
appId	The host app ID.

Unregister from registered push notification service.

handlePush

<i>public static void handlePush(Context context, Bundle data, String brandId, boolean showNotification)</i>	
context	A context from the host app.
data	A Bundle that contains the message. The bundle should hold a string with key named "message".

brandId	The account ID.
showNotification	Used to instruct the SDK to either show or not show a notification to the user. If you wish your app will handle the display of the notification you can set this as false.

All incoming push messages are received by the host app. The host app can choose to fully handle any push message and display a notification message, or partially handle it and allow the SDK to display the notification.

Handling the push message allows the host app to do the following:

- Receive non-messaging related push messages.
- Handle custom in-app alerts upon an incoming message.

Note: Whether the host app fully handles any push messages or partially, any messaging push message should be sent to the SDK using the `handlePush` method.

getSDKVersion

```
public static String getSDKVersion()
```

Returns the SDK version.

setCallback

```
public static void setCallback(final LivePersonCallback listener)
```

listener	A LivePersonCallback implementation
----------	---

Sets the SDK callback listener. The host app gets updates from the SDK using this callback listener. See [LivePerson Callbacks Interface](#) for more information.

removeCallBack

```
public static void removeCallBack()
```

Removes the registered [LivePersonCallback](#) callback.

checkActiveConversation

```
public static void checkActiveConversation(final ICallback<Boolean, Exception> callback)
```

callback	An ICallback implementation
----------	---

Checks whether there is an active (unresolved) conversation. The result will be returned to the provided callback.

checkAgentID

```
public static void checkAgentID(final ICallback<AgentData, Exception> callback)
```

callback	An ICallback implementation
----------	---

If there is an active conversation, this API returns agent data through the provided callback. If there is no active conversation, the API returns null.

[AgentData definition](#)

markConversationAsUrgent

```
public static void markConversationAsUrgent()
```

Marks the current conversation as urgent.

markConversationAsNormal

```
public static void markConversationAsNormal()
```

Marks the current conversation as normal.

checkConversationIsMarkedAsUrgent

```
public static void checkConversationIsMarkedAsUrgent(final ICallback<Boolean, Exception> callback)
```

callback	An ICallback implementation
----------	---

Checks whether the current conversation is marked as urgent. The result is returned through the provided callback.

resolveConversation

```
public static void resolveConversation()
```

Resolves the current conversation.

shutDown

```
public static void shutDown(final ShutDownLivePersonCallback shutdownCallback)
```

shutdownCallback	A ShutDownLivePersonCallback implementation to get indication whether the shutdown succeeded or failed
------------------	--

Shuts down the SDK and removes the footprint of the user session from local memory. After shutdown the SDK is unavailable until re-initiated. Message history is saved locally on the device and synced with the server upon reconnection.

The server continues to send push notifications when the SDK is shut down. To unregister from push services, call [unregisterLPPusher](#) API.

ShutDownLivePersonCallback callback description:

- *onShutdownSucceed()* method is called when the shutdown process finished successfully.
- *onShutdownFailed()* method is called when the shutdown process failed (for example, shutdown was called when the conversation screen is displayed in the foreground).

Note: This does not end the current messaging conversation.

shutDown (deprecated)

(Deprecated. Please use the above *shutDown(ShutDownLivePersonCallback)* method)

```
public static void shutDown()
```

Shuts down the SDK and removes the footprint of the user session from local memory. After shutdown the SDK is unavailable until re-initiated. Message history is saved locally on the device and synced with the server upon reconnection.

The server continues to send push notifications when the SDK is shut down. To unregister from push services, call [unregisterLPPusher](#) API.

Note: This does not end the current messaging conversation.

Important: This method must not be called when the conversation screen is displayed.

ClearHistory

```
public static boolean clearHistory()
```

Clear all conversations from the device. This clears all conversations and messages from the device only and does not remove them from the server. If the account has history enabled and is used on a new device, all conversations will be loaded from the server.

The return value indicates whether the action was completed successfully or not:

True - All conversations were cleared successfully.

False - Conversations were not cleared since there is an open conversation.

Note: The clearHistory API call will work only if there is currently no active conversation.

logout

<pre>public static void logOut(Context context, String brandId, String appld, LogoutLivePersonCallback logoutCallback){</pre>	
context	A context from the host app.
brandId	An account ID.
appld	The host app ID.
logoutCallback	An LogoutLivePersonCallback implementation.

Logout from the SDK - when all user data should be removed.

Calls [unregisterLPPusher](#), [shutDown](#) and, in addition, deletes all user data (messages and user details) from the device.

In order to unregister from push, it must be called when there is network available.

After logout the SDK is unavailable until re-initiated.

This method does not require the SDK to be initialized.

Note: This does not end the current messaging conversation.

Important: This method must not be called when the conversation screen is displayed.

Interface and class definitions

AgentData

```
public class AgentData {
```

```
public String mFirstName;  
  
public String mLastName;  
  
public String mAvatarURL;  
  
public String mEmployeeId;  
  
public String mNickName;  
  
}
```

InitLivePersonProperties

```
Public class InitLivePersonProperties{  
  
    Private string brandId;  
  
    Private string appld;  
  
    Private InitLivePersonCallBack initCallBack;  
  
}
```

ConsumerProfile

```
public class ConsumerProfile {  
  
    private String mFirstName;  
  
    private String mLastName;  
  
    private String mPhoneNumber;  
  
    private String mNickName;
```

```
private String mAvatarUrl;  
  
}
```

Callbacks Index

The SDK provides a callback mechanism to keep the host app updated on events related to the conversation. This section details each callback.

LivePersonCallback

Definition:

```
public interface LivePersonCallback{  
  
    void onError(TaskType type, String message);  
    void onTokenExpired();  
    void onConversationStarted();  
    void onConversationResolved();  
    void onConnectionChanged(boolean isConnected);  
    void onAgentTyping(boolean isTyping);  
    void onAgentDetailsChanged(AgentData agentData);  
    void onCsatDismissed();  
    void onCsatSubmitted(String conversationId);  
    void onConversationMarkedAsUrgent();  
    void onConversationMarkedAsNormal();  
    void onOfflineHoursChanges(boolean isOfflineHoursOn);  
}  
  
enum TaskType {  
    CSDS,  
    IDP,  
    VERSION,  
    OPEN_SOCKET  
}
```

Error indication

The *onError(TaskType type, String message)* method is called to indicate that an internal SDK error has occurred.

Parameter	Description
-----------	-------------

type	The type of error. Indicates the category of the error. See the table below.
Message	A detailed message on the error.

TaskType enum:

Type	Description
CSDS	Internal server error.
IDP	An error occurred during the authentication process. This is usually due to a wrong or expired authentication key.
VERSION	Your host app is using an old SDK version and cannot be initialized.
OPEN_SOCKET	Error opening a socket to the server.
MESSAGE_SEND_FAIL URE	Called when a sent message has failed.

Token Expired

The onTokenExpired() method is called if the token used in the session has expired and no longer valid. The host app needs to [reconnect](#) with a new authentication key.

Conversation started

The onConversationStarted() method is called whenever a new conversation is started by either the consumer or the agent.

Conversation resolved

The onConversationResolved() method is called when the current conversation is marked as resolved by either the consumer or the agent.

Connection state has changed

The onConnectionChanged(boolean isConnected) method is called when the connection to the conversation server has established or disconnected.

Parameters:

isConnected - indicates the connection state. true - connection establish, false - disconnected.

Agent avatar tapped

The `onAgentAvatarTapped (AgentData agentData)` method is called when the user taps on the agent avatar.

The icon is available next to the agent message bubble or on the top of the toolbar (if using activity mode)

Agent details changed

The `onAgentDetailsChanged(AgentData agentData)` method is called when the assigned agent of the current conversation has changed or their details are updated.

This callback is also called with null value when there is no agent that is associated with the conversation, for instance when the consumer is returned to queue. You need to check for null value before using the `agentData` object.

Parameters:

agentData - contains first name, last name, avatar url and employee ID.

Agent typing

The `onAgentTyping(boolean isTyping)` method is called when the assigned agent is typing a message. When there is 2 seconds of idle time, this method is called again to notify with `isTyping` false to indicate that the agent stopped typing.

CSAT Screen dismissed

The `onCsatDismissed()` method is called when the feedback screen is dismissed (user clicked Submit button, user clicked Back button, etc.).

CSAT Screen submitted

The `onCsatSubmitted(String conversationId)` method is called when the user clicked the Submit button on the feedback screen.

`conversationId` - The id of the conversation the survey is related to.

This callback comes in addition to the `onCsatDismissed` callback when clicking Submit .

Conversation marked as urgent

The `onConversationMarkedAsUrgent()` method is called when the current conversation is marked as urgent.

Conversation marked as normal

The `onConversationMarkedAsNormal()` method is called when the current conversation is marked as normal.

Offline Hours Changes

The `onOfflineHoursChanges(boolean isOfflineHoursOn)` is called when there is a change in agent availability. When the agent is in off hours mode this method is called with `isOfflineHoursOn` true. When the agent return to online state, `isOfflineHoursOn` is called with `isOfflineHoursOn` false.

LogoutLivePersonCallback

```
public interface LogoutLivePersonCallback{  
  
    void onLogoutSucceed();  
  
    void onLogoutFailed();  
  
}
```

ICallback

```
public interface ICallback<T, E extends Throwable> {  
  
    void onSuccess(T value);  
  
    void onError(E exception);  
  
}
```

InitLivePersonCallBack

```
public interface InitLivePersonCallBack {  
  
    void onInitSucceed();  
  
    void onInitFailed(Exception e);  
  
}
```

ShutDownLivePersonCallback

```
public interface ShutDownLivePersonCallback {  
  
    void onShutdownSucceed();  
  
    void onShutdownFailed();  
  
}
```

Configuring the SDK

The SDK allows you to configure the look and feel of the conversation screen with your branding.xml file. In order to do so, you need to create, under the **values** folder, a new resource file called branding.xml.

This file MUST contain all the resource-names as listed below. The Customer notes column includes space for you to add your own branding.

Attributes

Brand

Name	Description	Default
<code><string name="brand_name"></code>	The brand name will be shown as a title on the toolbar when there is no active conversation.	My Brand
<code><integer name="message_receive_icons" ></code>	For each message, there are three indicators available: Message sent, Message received, Message read. You can customize the indicators according to your needs, by using a number between 1 and 3: 0 - text (sent, delivered etc.) instead of icons 1 - Sent only 2 - Sent+received 3 - Sent+received+read	
<code><string-array name="message_receive_text" ></code>	If you set 0 in the resource message_receive_icons, you can specify what texts appears for each state. You must have 4 items, in the following order:	

	1st item - message sent 2nd item - message delivered 3rd item - message read 4th item - message not delivered 5th item - message sending	
<code><bool name="clear_history_show_confirm_dialog"></code>	Define if to show confirm dialog before clearing history or not. True by default.	true

Brand Message Bubble - the first brand message

Name	Description	Default
<code><dimen name="brand_bubble_stroke_width"></code>	Int number for the outline width.	0dp
<code><color name="brand_bubble_stroke_color"></code>	Color code for the outline color.	#004DC9 (blue)
<code><color name="brand_bubble_message_text_color"></code>	Color code for the text of the brand bubble	@android:color/white
<code><color name="brand_bubble_message_link_text_color"></code>	Color code for links in the text of the brand bubble.	@android:color/white
<code><color name="brand_bubble_timestamp_text_color"></code>	Color code for the timestamp of the brand bubble.	#46474A (dark gray)
<code><color name="brand_bubble_background_color"></code>	Color code for the background of the brand bubble.	#004DC9 (blue)
<code><color</code>	Color code for the background of the default	#007AFF (light

<code>name="brand_logo_background_color"></code>	brand logo next to the bubble.	blue)
---	--------------------------------	-------

Agent Message Bubbles

Name	Description	Default
<code><dimen name="agent_bubble_stroke_width"></code>	Int number for the outline width.	0dp
<code><color name="agent_bubble_stroke_color"></code>	Color code for the outline color.	#004DC9 (blue)
<code><color name="agent_bubble_message_text_color"></code>	Color code for the text of the agent bubble.	@android:color/white
<code><color name="agent_bubble_message_link_text_color"></code>	Color code for links in the text of the agent bubble.	@android:color/white
<code><color name="agent_bubble_timestamp_text_color"></code>	Color code for the timestamp of the agent bubble.	#46474A (dark gray)
<code><color name="agent_bubble_background_color"></code>	Color code for the background of the agent bubble.	#004DC9 (blue)
<code><color name="agent_avatar_background_color"></code>	Color code for the background of the agent default avatar next to the bubble	#949596 (gray)
<code><color name="agent_avatar_icon_color"></code>	Color code for the agent default icon in the avatar next to the bubble.	@android:color/white
<code><color name="agent_bubble_link_previ</code>	Color code for the background of the agent	@android:col

<code>ew_background_color"></code>	bubble when url is presented	or/white
<code><color name="agent_bubble_link_previe w_title_text_color"></code>	Color code for the background of the agent title text color when url is presented	@android:color/black
<code><color name="agent_bubble_link_previe w_description_text_color"></code>	Color code for the background of the agent description text color when url is presented	#555555 (gray)

Consumer Bubbles

Name	Description	Default
<code><dimen name="consumer_bubble_stroke_width"></code>	integer in dp for the bubble stroke width of the consumer bubble.	1dp
<code><color name="consumer_bubble_message_text_color"></code>	Color code for the text of the consumer bubble.	@android:color/black
<code><color name="consumer_bubble_message_link_text_color"></code>	Color code for links in the text of the consumer bubble.	#004DC9 (blue)
<code><color name="consumer_bubble_timestamp_text_color"></code>	Color code for the timestamp of the consumer bubble.	#46474A (dark gray)
<code><color name="consumer_bubble_background_color"></code>	Color code for the background of the consumer bubble.	#EDED (light gray)
<code><color name="consumer_bubble_state_text_color"></code>	Color code for state text next to the consumer bubble.	#46474A (dark gray)
<code><color name="consumer_bubble_stroke_color"></code>	Color code for the stroke of the consumer bubble.	#EDED

<code>ke_color"></code>	bubble.	(light gray)
<code><color name="consumer_bubble_link_p review_background_color"></code>	Color code for the background of the consumer bubble when url is presented	@android:color/white
<code><color name="consumer_bubble_link_p review_title_text_color"></code>	Color code for the background of the consumer title text color when url is presented	@android:color/black
<code><color name="consumer_bubble_link_p review_description_text_color"></code>	Color code for the background of the consumer description text color when url is presented	#555555 (gray)

System messages

Name	Description	Default
<code><color name="system_bubble_text_color"></code>	Color code for the text of the system messages.	#46474A (dark gray)
<code><bool name="enable_conversation_resolved_message"></code>	Enable/disable the conversation resolved message	true
<code><bool name="enable_conversation_resolved_separator"></code>	Enable/disable separators between conversations	true
<code><color name="conversation_separator_text_color"></code>	Color code for the conversation resolved message and separator	#555555 (gray)

Unread messages indicator Bubbles

Name	Description	Default
<code><bool name="unread_indicator_bubble_enable"></code>	Enable/disable the unread message indicator (shown or invisible) - true by default.	true
<code><color name="unread_indicator_bubble_text_color"></code>	Enable/disable the unread message indicator (shown or invisible) - true by default.	#004DC9 (blue)
<code><color name="unread_indicator_bubble_background_color"></code>	Color code for the background of the unread messages bubble.	#EDEDED (light gray)

Survey screen

Name	Description	Default
<code><integer name="csatSurveyExpirationInMinutes"></code>	Define the expiration time in minutes for the survey to appear after closing the conversation.	1440
<code><color name="feedback_fragment_background_color"></code>	Feedback dialog background color.	@android:color/white
<code><color name="feedback_fragment_title_question"></code>	Feedback dialog title color.	@android:color/black
<code><color name="feedback_fragment_star"></code>	Feedback dialog star color.	#229A49 (green)

<pre><color name="feedback_fragment_rate_text"></pre>	Feedback dialog rating title color.	#5b5c5e (dark grey)
<pre><color name="feedback_fragment_title_yesno"></pre>	Feedback dialog yes/no color.	#5b5c5e (dark grey)
<pre><color name="feedback_fragment_yesno_btn_selected_background"></pre>	Feedback dialog yes/no selected background color.	#229A49
<pre><color name="feedback_fragment_yesno_btn_default_background"></pre>	Feedback dialog yes/no default background.	@android:color/white
<pre><color name="feedback_fragment_yesno_btn_text_selected"></pre>	Feedback dialog yes/no text color when selected.	@android:color/white
<pre><color name="feedback_fragment_yesno_btn_text_default"></pre>	Feedback dialog yes/no text color when in default.	#5B5C5E
<pre><color name="feedback_fragment_yesno_btn_stroke_default"></pre>	Feedback dialog yes/no stroke color when in default.	#E2E2E3
<pre><color name="feedback_fragment_yesno_btn_stroke_selected"></pre>	Feedback dialog yes/no stroke color when selected.	#229A49
<pre><dimen name="feedback_fragment_yesno_btn_stroke_width_default"></pre>	Feedback dialog yes/no stroke width size when in default.	1dp

<code><dimen name="feedback_fragment_yesno_btn_stroke_width_selected"></code>	Feedback dialog yes/no stroke width size when in selected.	1dp
<code><color name="feedback_fragment_submit_message"></code>	Feedback dialog submit message text color.	#565656
<code><color name="feedback_fragment_submit_btn_enabled"></code>	Feedback dialog submit button color when enabled.	#229A49
<code><color name="feedback_fragment_submit_btn_text_enabled"></code>	Feedback dialog submit button text color when enabled.	@android:color/white
<code><color name="feedback_fragment_submit_btn_disabled"></code>	Feedback dialog submit button color when disabled.	@android:color/white
<code><color name="feedback_fragment_submit_btn_text_disabled"></code>	Feedback dialog submit button text color when disabled.	#BDBDBD
<code><color name="feedback_fragment_submit_btn_stroke_enabled"></code>	Feedback dialog submit button stroke color when enabled.	#229A49
<code><color name="feedback_fragment_submit_btn_stroke_disabled"></code>	Feedback dialog submit button stroke color when disabled.	#E2E2E3
<code><dimen name="feedback_fragment_submit_btn_stroke_width_enabled"></code>	Feedback dialog submit button stroke width size when enabled.	1dp
<code><dimen name="feedback_fragment_submit_btn_stroke_width_disabled"></code>	Feedback dialog submit button stroke width size when disabled.	1dp
<code><color name="feedback_fragment_agent"></code>	Define the color of the agent name on agent	@android:c

<code>ent_details_name"></code>	details section in feedback dialog. Visible only if <i>show_agent_details_csat</i> is true.	olor/black
<code><bool name="show_feedback"></code>	Defines whether to show the feedback dialog.	true
<code><bool name="show_agent_details_c sat"></code>	Define if the agent's name and avatar are visible on top of feedback dialog. (true=show, false=hide) NOTE: if both <i>show_yes_no_question</i> and <i>show_agent_details_csat</i> are set to true, <i>show_yes_no_question</i> will be ignored and will not be visible .	true
<code><bool name="show_yes_no_question ></code>	Defines whether to show or hide the yes/no question in the feedback dialog (true=show, false=hide) NOTE: if both <i>show_yes_no_question</i> and <i>show_agent_details_csat</i> are set to true, <i>show_yes_no_question</i> will be ignored and will not be visible .	true
<code><bool name="show_csat_thank_you" ></code>	Define if "thank you" screen will appear after submitting the survey. (true=show, false=hide)	true

Message Edit Text

Name	Description	Default
<code><color name="edit_text_underline_ color"></code>	Color code for the Enter Message control underline color.	#90CAF9

<code><color name="lp_enter_msg_text"></code>	Define the input message text color.	@android:color/black
<code><color name="lp_enter_msg_hint"></code>	Define the input message hint color.	@android:color/darker_gray
<code><color name="lp_send_button_text_enable"></code>	Define the color of the send button when it's enabled.	#004DC9 (blue)
<code><color name="lp_send_button_text_disable"></code>	Define the color of the send button when it's disabled.	#B7B8B9
<code><bool name="use_send_image_button"></code>	Use an icon for the send button instead of "Send" text	false

Connection status bar

Name	Description	Default
<code><color name="connection_status_connecting_bg_color"></code>	Define the color of statusbar background color while trying to connect.	#F2F5F5F5
<code><color name="connection_status_not_connected_bg_color"></code>	Define the color of statusbar background color when connection is unavailable.	#CC000000
<code><color name="connection_status_connecting_text_color"></code>	Define the color of statusbar text color while trying to connect.	#46474A
<code><color name="connection_status_not_connected_text_color"></code>	Define the color of statusbar text color when connection is unavailable.	@android:color/black

In page navigation - Scroll down indicator

Name	Description	Default
<code><bool name="scroll_down_indicato r_enabled"></code>	Enable/disable the scroll down indicator (shown or invisible). True by default	true
<code><bool name="scroll_down_indicato r_unread_summary_enabled"></code>	Enable/disable the summary in scroll down indicator (shown or invisible). If <i>unread_indicator_bubble_enable</i> is false, it will be in minimized mode without a badge indicating number of unread message. And tap will scroll to the last message.	true
<code><color name="scroll_down_indicato r_unread_counter_text_colo r"></code>	Define the color of the unread messages counter text color.	@android:c olor/white
<code><color name="scroll_down_indicato r_unread_summary_text_colo r"></code>	Define the color of the unread message summary (preview) text color.	@android:c olor/white
<code><color name="scroll_down_indicato r_unread_counter_stroke_co lor"></code>	Define the color of the unread messages counter stroke color.	#CC000000
<code><dimen name="scroll_down_indicato r_unread_counter_stroke_wi dth"></code>	Define the dimen of the unread messages counter stroke width.	1dp
<code><color name="scroll_down_indicato r_unread_counter_solid_col or"></code>	Define the color of the unread messages counter solid color.	#FF0000 (red)
<code><color name="scroll_down_indicato</code>	Define the color of the scroll down background	#CC000000

<code>r_background_color"></code>	color.	
<code><color name="scroll_down_indicato r_arrow_down_color"></code>	Define the color of the image arrow scrolling down.	@android:color/white

Photo Sharing

Name	Description	Default
<code><bool name="enable_photo_sharing<br "=""/>></code>	Enable/disable the photo sharing feature. True by default.	false
<code><integer name="max_number_stored_im ages"></code>	Define the max number of images that will be stored locally.	20
<code><integer name="full_image_compressi on_rate"></code>	Define the image compression rate (percentage)	50
<code><integer name="thumbnail_longer_dim ension_resize"></code>	Define the size of the thumbnail image longer dimension after resizing it (pixels)	100
<code><integer name="full_image_longer_di mension_resize"></code>	Define the size of the full image longer dimension after resizing it (pixels).	800
<code><integer name="max_image_size_kb"></code>	Define the maximum image size in KB.	3000
<code><color name="attachment_menu_item _background_color"></code>	Define the background color of the item attachment menu.	#004DC9 (blue)

General Style

Name	Description	Default
<code><color name="conversation_background"></code>	Define the color code for the entire view background. In activity mode - Also the color of android:windowBackground	@android:color/white
<code><bool name="link_preview_use_big_picture"></code>	Define which configuration to show when sending / receiving s link (big / small picture)	true
<code><bool name="link_preview_enable_real_time_preview ></code>	Define whether or not we should show a real time link preview. A preview while the consumer is typing an url	true
<code><bool name="link_preview_to_use_more_than_og_tags ></code>	parse only <og:> tags or others as well	false - use <og:title> tags only. true - use <og:title> and <title> tags

Conversation Activity Style - (activity mode only!)

Name	Description	Default
<code><color name="lp_colorPrimary"></code>	Define the primary color of the activity.	android:colorPrimary

<pre><color name="lp_colorPrimaryDark" ></pre>	Define the primary dark color of the activity.	android:colorPrimaryDark
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Accessibility

Name	Description	Default
<pre><integer name="snackbar_duration_for_accessibility"></pre>	Number of milliseconds to show the TTR snackbar if the accessibility TalkBack option is on	60,000

Miscellaneous

Name	Description	Default
<pre><bool name="disableTTRPopup"></pre>	Defines whether to disable the TTR snackbar popup (true=disable>false by default.	false
<pre><bool name="contextual_menu_on_toolbar"></pre>	Enable multiple message copy menu over the app toolbar. If true, when long pressing a message on chat it will select the message and enable a context menu over the toolbar, enabling the user to copy multiple messages. If false, long pressing a message will display a copy popup menu.	true
<pre><color name="bubble_selected_background_color"></pre>	Define the background color of item when it's selected to be copied (if multiple message copy is enabled).	#5597a7e3
<pre><integer name="encryptionVersion"></pre>	Defines the encryption version to use. Currently available version 1 only. 1 - encrypt data	1

	0 - disable encryption	
<code><string name="csds_url"></code>	For vanity URL purposes. For regular use please use: adminlogin.liveperson.net	adminlogin.liveperson.net
<code><integer name="idp_num_history_conversation"></code>	When user is authenticated, this indicates the number of recent conversations to reload from the server (including their messages) when running for the first time.	2
<code><bool name="show_timestamp_in_ttr_notification"></code>	When true the TTR snackbar will display the time until the agent responds. If set to false, a general message is displayed.	true
<code><integer name="ttr_duration"></code>	Set the duration that the TTR snackbar will be visible (ms).	3,000
<code><bool name="send_agent_profile_updates_when_conversation_closed"></code>	When true the callback LivePersonCallback#onAgentDetailsChanged will be called with the agent details updates even if the last conversation is closed (in this case it will provide the assigned agent of the last conversation). If false, this callback will be called only when the current conversation is active.	true
<code><bool name="ttr_message_off_hours_enabled"></code>	Defines whether to show the off hours snackbar popup (true=enable).	true
<code><integer name="ttrShowFrequencyInSeconds"></code>	Define the frequency of the TTR (time to response) messages.	8
<code><bool name="enable_client_only_masking"></code>	Defines whether to enable or disable client side only masking. False by default.	false
<code><bool name="enable_real_time_masking"></code>	Defines whether to enable or disable real time masking.	false

<code>king"></code>	False by default.	
<code><string name="client_only_masking_ regex"></code>	Defines the java regex for client side only masking. By default does not contain any value.	No value
<code><string name="client_only_mask_cha racter"></code>	The character used to mask client only string.	'**'
<code><string name="real_time_masking_re gex"></code>	Defines the Java regex for real time masking.	No value
<code><string name="real_time_mask_chara cter"></code>	The character used to mask the real time message.	'**'
<code><string name="lp_bubble_phone_link s_regex"></code>	Defines the java regex for phone links in bubble messages. By default does not contain any value.	No value
<code><string name="lp_bubble_url_links_ regex"></code>	Defines the java regex for url links in bubble messages. By default does not contain any value.	No value
<code><string name="lp_bubble_email_link s_regex"></code>	Defines the java regex for email links in bubble messages. By default does not contain any value.	No value
<code><string name="lp_date_format"></code>	Define date format. More info here.	No value
<code><string name="lp_time_format"></code>	Define time format . More info here.	No value
<code><string name="lp_date_time_format" ></code>	Define date-time format. More info here.	No value
<code><integer name="sendMessageTimeou</code>	Define timeout for automatic resending	60

<code>tInMinutes"></code>	pending message before moving it to failed.	
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Deprecated Attributes

Name	Description
<code><string name="custom_button_icon_name"></code>	Custom button icon filename without extension. This will be displayed on the toolbar.
<code><string name="custom_button_icon_description"></code>	Content description for custom button. It briefly describes the view and is primarily used for accessibility support. Set this property to enable better accessibility support for your application.
<code><string name="notification_large_icon_name"></code>	The name of a resource to use as the large icon of the push notification

Configuring the message's EditText

There is an option to change the whole style of the message EditText. In the app's styles.xml file, override the `lp_enter_message_style` with the required style.

Example:

```
<style name="lp_enter_message_style" parent="Theme.AppCompat.Light.NoActionBar">
<item name="colorControlActivated">#F8BBD0</item>
```

...

```
</style>
```

ProGuard Configuration (Android only)

The SDK handles its own obfuscation and all its dependencies according to ProGuard rules. There is no need to add any ProGuard specific rules that relate to the SDK.

The SDK ProGuard will run automatically when the ProGuard option is enabled in the gradle file of your application.

In case there is no ProGuard activated, the SDK ProGuard will also be disabled.

String localization in SDK

Modifying String

You may change every string appearing on the SDK interface by overriding the respective string key.

General

String name	Used in	Default value
lp_enter_message	Enter message text box when empty.	Write a message
lp_send	The “Send” button text.	Send
lp_no_network_toast_message	A toast message when there is no network.	No internet connection. Please check your connection and try again.
lp_no_action_not_available_toast_message	A toast message when the required action is not available (e.g. Mark as urgent when there is no active conversation).	Action not available - no open conversation
lp_today	Today header in conversation.	Today

lp_yesterday	Yesterday header in conversation.	Yesterday
lp_first_message	System message before the first conversation.	How can I help you today?
lp_loading_message	Text above the loading icon when loading previous messages.	Loading...
lp_conversation_ended_by_agent_with_name	<p>Message when the conversation was resolved when we have an agent name.</p> <p>%1\$s - agent name</p> <p>%2\$s - time</p>	Conversation resolved by %1\$s \n %2\$s
lp_conversation_ended_by_agent_no_name	<p>Message when the conversation was resolved when we don't have the agent name.</p> <p>%1\$s - time</p>	Conversation resolved by Agent \n %1\$s
lp_conversation_ended_by_you	<p>Message when the conversation was resolved by the client.</p> <p>%1\$s - time</p>	Conversation resolved by You \n %1\$s
lp_is_typing	Text in conversation activity when agent is typing.	typing...
lp_mark_as_urgent_menu_text	"Mark as urgent" string in menu and snack bar.	Mark as urgent
lp_mark_as_resolved_menu_text	"Mark as resolved" string in menu.	Mark as resolved

lp_clear_history_menu_text	“Clear history” string in menu	Clear history
lp_dismiss_as_urgent_menu_text	Dismiss urgent menu text.	Dismiss urgent
	“Clear history” string in menu.	Clear history
	“Clear history” confirmation dialog text	All of your existing conversation history will be lost. Are you sure?
	“Clear” button text on “Clear history” dialog.	Clear
lp_end_conversation_first	Dialog text that is shown in case trying to clear history when a conversation is open.	Please resolve the conversation first.
lp_dismiss_as_urgent_two_lines	“Dismiss urgent” string in menu and snack bar.	Dismiss urgent
lp_mark_as_urgent_dialog_header	Mark as urgent confirmation dialog header.	Are you sure you want to mark this conversation as urgent?
lp_dismiss_urgent_dialog_header	Dismiss urgent confirmation dialog header.	Are you sure you want to mark this conversation as not urgent?
lp_mark_as_resolved_dialog_message	Resolve conversation confirmation dialog text.	Are you sure this topic is resolved?
lp_mark_as_urgent_dialog_message	Mark as urgent confirmation dialog text.	This means that your conversation will get top priority.

lp_dismiss_urgent_dialog_message	Dismiss urgent confirmation dialog text.	This means that your conversation will get normal priority.
lp_ttr_message_with_timestamp	Text in TTR snackbar when timestamp is shown.	An agent will respond within the next
lp_ttr_message_minutes	(plurals string that contains: “one” and “others”) The <i>one</i> or <i>others</i> strings is concatenated to the <i>lp_ttr_message_with_timestamp</i> string above according to whether it’s single minute multiple minutes . Example	
	one	%1\$s minute
	others	%1\$s minutes
lp_ttr_message_hours	(plurals string that contains: “one” and “others”). The <i>one</i> or <i>others</i> strings is concatenated to the <i>lp_ttr_message_with_timestamp</i> string above according to whether it’s single hour multiple hours . Example	
	one	%1\$s hour
	others	%1\$s hours
lp_ttr_message_days	(plurals string that contains:	

	<p>“one” and “others”)</p> <p>The <i>one</i> or <i>others</i> strings is concatenated to the <i>lp_ttr_message_with_timestamp</i> string above according to whether it's single day multiple days.</p> <p>Example</p>	
	one	%1\$s day
	others	%1\$s days
lp_ttr_message_no_timestamp	Text in TTR snackbar when timestamp is not shown.	An agent will respond shortly
lp_feedback_1	String displayed when one star is selected in the feedback dialog.	Very Dissatisfied
lp_feedback_2	String displayed when two stars are selected in the feedback dialog.	Dissatisfied
lp_feedback_3	String displayed when three stars are selected in the feedback dialog.	Neither
lp_feedback_4	String displayed when four stars are selected in the feedback dialog.	Satisfied
lp_feedback_5	String displayed when five stars are selected in the feedback dialog.	Very Satisfied
lp_feedback_thank_you	Text displayed after the feedback dialog is	Survey submitted successfully.\nThank you!

	submitted.	
lp_feedback_submit	The feedback submit button text.	Submit
lp_feedback_yesno_question	Yes/No question text in feedback dialog.	Did we solve your issue today?
lp_feedback_submit_message	Submit message text at the bottom of feedback dialog.	Your feedback helps us serve you better.\n It will not be shared with any customer service representatives.
lp_feedback_yesno_negative_title	Negative button text in the feedback dialog.	NO
lp_feedback_yesno_positive_title	Positive button text in the feedback dialog.	YES
lp_feedback_question	Feedback dialog rate question text.	How would you rate your connection with our agent?
lp_end	End conversation “End” button text.	End
lp_skip	Feedback dialog toolbar skip button text.	Skip
lp_done	Feedback dialog toolbar done button text (after submitting).	Done
lp_ok	Confirmation dialog OK button.	OK
lp_cancel	Confirmation dialog Cancel button.	Cancel

lp_menu_copy	Copy menu button text when selecting messages in conversation.	Copy
lp_end_conversation	End conversation title.	Resolve the conversation
lp_resend_failed_conversation_closed	Toast message displayed when trying to resend a failed message when conversation is already closed.	This conversation has already been resolved.
lp_resend_failed_masked_message	Toast message displayed when trying to resend a failed masked message.	Message failed to send. Please re-enter message and send again.
lp_new_messages	Notification message displayed when there are multiple push messages.	new messages
lp_message_time_now	Message timestamp for the latest messages (“Now”).	Now
lp_message_time_now_with_state	Message timestamp for the latest messages that has a sending state (“now”).	Now
lp_message_time_min_ago	Message timestamp for older messages (“5 min ago”).	Min ago
lp_ttr_message_off_hours_time_zone_id	Represents Java timezone ID that is used in the off hours message. For a full list of the available IDs, use the “Aliases” from here .	US/Pacific

lp_ttr_message_off_hours_message	<p>Message to show when the online hours is more than 2 days from now.</p> <p>includes 1 param:</p> <p>%1\$s - for the full date (MMM dd, yyyy hh:mm a)</p>	Thanks for your message. We will be back online at %1\$s
lp_unread_message	<p>(plurals string that contains: “one” and “others”).</p> <p>Used in the unread messages indicator to indicate how many unread messages</p> <p>Example</p>	
	one	%1\$d UNREAD MESSAGE
	others	%1\$d UNREAD MESSAGES
lp_still_loading_message	Message displayed when loading conversation takes longer the usual	Still loading conversation...
lp_date_time_format	Date and time format to be used instead of the standard format	No Value
lp_failed_upload_toast_message	Toast message displayed when uploading a photo failed	Failed to upload file
lp_failed_download_toast_message	Toast message displayed when downloading a photo failed	Failed to download file

brand_name	The default agent name displayed on the toolbar	My Brand
lp_ttr_message_off_hours_message_today	A snackbar content when the agent is in off hours and TTR is sometime today	Thanks for your message. We will be back online today at %1\$s
lp_ttr_message_off_hours_message_tomorrow	A snackbar content when the agent is in off hours and TTR is sometime tomorrow	Thanks for your message. We will be back online tomorrow at %1\$s
lp_add_a_caption	Hint text in the Enter Message EditText on the image preview screen	Add a caption
lp_connection_status_connecting	Connection bar text when connecting	Connecting...
lp_connection_status_trying_to_connect	Connection bar text when the connection is longer than 5 seconds	Trying to connect...
lp_connection_status_failed_to_connect	Connection bar text when could not connect to the messaging server	Failed to connect to the server.
lp_connection_status_no_connection	Connection bar text when there is no internet connection on the device	No connection. Please check your connection.

Clear History dialog

String name	Used in	Default value
lp_clear_history_dialog_title	Title of the Clear History confirm dialog	Clear history

lp_clear_history_dialog_message	Body message of the Clear History confirm dialog	All of your existing conversation history will be lost. Are you sure?
lp_clear_history_dialog_positive_button	Positive button text	Clear
lp_end_conversation_first	Message text displayed when trying to clear history and the conversation is not resolved	Please resolve the conversation first.

Masking

String name	Used in	Default value
lp_system_message_real_time_masked	Text of system message, added after detecting a real time masked message (if this feature is enabled).	Your personal data has been masked to protect your security and cannot be read by the agent.
real_time_mask_character	The character used to mask the real time message.	*
lp_system_message_client_only_masked	Text of system message, added after detecting a client only masked message (if this feature is enabled).	Your personal data has been masked to protect your security. Only the agent can read it.
client_only_mask_character	The character used to mask client only string.	*

Accessibility strings (used by the Accessibility TalkBack)

String name	Used in	Default value
-------------	---------	---------------

lp_accessibility_received	Received message status	received
lp_accessibility_selected	Used to indicate the selected star on the feedback screen	selected
lp_accessibility_agent	Used as a message prefix on the message from the agent	Agent
lp_accessibility_you	Used as a message prefix on the message from the consumer	You
lp_accessibility_attachment_menu_button_collapsed	The attachment menu button name when collapsed	Attachment menu button collapsed
lp_accessibility_attachment_menu_button_expanded	The attachment menu button name when expanded	Attachment menu button expanded
lp_accessibility_photo_preview	Used on the image on the preview screen	Photo preview
lp_accessibility_attachment_menu	Used on the attachment menu	Attachment menu
lp_accessibility_gallery	Used on the gallery button (on the attachment menu)	Gallery
lp_accessibility_camera	Used on the camera button (on the attachment menu)	Camera
lp_accessibility_image	Used on the thumbnail image on the conversation screen	Image

lp_accessibility_full_image	Used on the image in the full image screen	Full image
lp_accessibility_resend	Used on the resend button	Resend
lp_accessibility_agnet_icon	Used on the agent avatar	Agent Icon
lp_accessibility_chat_message	Used as a label on the 'Enter message' EditText control	Chat message
lp_accessibility_image_caption	A label string for the Enter Message EditText in the image preview screen	Image caption
lp_accessibility_photo	Used on an image on the conversation screen	Photo
lp_accessibility_new_agent_message	Used when receive an incoming message from agent	New agent message:
lp_accessibility_new_system_message	Used when receive an incoming system message	New system message:

Modifying resources

The SDK utilizes several resources as part of its GUI. To customize those resources, please add appropriate resources to your project:

Description	Resources name	Size
Default brand avatar on the avatar next to brand bubble (the first brand message) and on agent avatar appearing on the action bar before an agent is assigned.	lp_messaging_ui_brand_logo	

<p>In case you want to define the background color for this avatar - override "brand_logo_background_color" resource id. (This is relevant for bubble brand's avatar only. Background color of agent avatar on action bar is "agent_avatar_background_color").</p>		
<p>Default agent avatar appearing next to an agent's bubble when no avatar URL is assigned on LiveEngage and on agent avatar appearing on the action bar.</p> <p>In case you want to define the background color for this avatar, override "agent_avatar_background_color" resource id.</p>	<p>lp_messaging_ui_ic_agent_avatar</p>	

Plural String Resource Example

Following is an example on how to add a plural string resource:

```
<plurals name="lp_ttr_message_hours">
    <item quantity="one">" %1$s hour"</item>
    <item quantity="other">" %1$s hours"</item>
</plurals>
```


Timestamps Formatting

Android provides 4 different default types of date and time formats:

SHORT is completely numeric (12.13.52 or 3:30pm)

MEDIUM is longer and contains the first 3 letters of the month (Jan 12, 1952)

LONG is longer (January 12, 1952 or 3:30:32pm)

FULL specifies the complete time and date (Tuesday, April 12, 1952 AD or 3:30:42pm) PST.

For each feature we added a special resource ID in case customizing the date/time formatting is needed. By default, all these formatting resources are empty in order to take the default device locale.

We define 3 configurable formatting resources:

- For date only (separator):

```
<string name="lp_date_format"></string>
```

- For time only (bubble's timestamp & off hours time in case of today/tomorrow):

```
<string name="lp_time_format"></string>
```

- For date & time together (resolve message & off hours time in case of other date):

```
<string name="lp_date_time_format"></string>
```

Off Hours

Date & Time

Today and tomorrow off hours message use default SHORT time without date according to the locale (default or custom) and to device setting.

If device is set to 12 hours format :

“Thanks for your message. We will be back online today/tomorrow at 3:30pm”

If device is set to 24 hours format :

“Thanks for your message. We will be back online today/tomorrow at 15:30”

In case you want special **hour** format, you can use

```
<string name="lp_time_format"></string>
```

With any **time** format. For ex. - “hh:mm a”, “HH:mm” etc..

Date off hours message (not today/tomorrow) use default **LONG date** and **SHORT time** according to the locale (default or custom) and to device setting.

If device is set to 12 hours format :

“Thanks for your message. We will be back online January 12, 2017 at 3:30pm”

If device is set to 24 hours format :

“Thanks for your message. We will be back online *January 12, 2017 at 15:30*”

In case you want special **date/hour** format, you can use

```
<string name="lp_date_time_format"></string>
```

With any **date & time** format. For ex. - “MMM d, yyyy hh:mm a”, “EEEE dd/mm/yy HH:mm” etc..

Timezone

Off hours can appear in different time zone with this resource ID:

```
<string name="lp_ttr_message_off_hours_time_zone_id"></string>
```

Can find list of timezones id [here](#)

For ex. - “US/Pacific”, “Europe/Berlin”.

Bubble timestamp

Bubbles contains only time in **SHORT time** format, according to the locale (default or custom) and to device setting.

If device is set to 12 hours format : “3:30pm”

If device is set to 24 hours format : “15:30”

If you wish to configure this time format, override this resource ID:

```
<string name="lp_time_format"></string>
```

With any **time** format. For ex. - “hh:mm a”, “HH:mm” etc..

This will apply to all bubble’s timestamp.

Separator timestamp

Separator contains only date in **SHORT date** format, according to the locale (default or custom) and to device setting.

“9/25/16” for US locale / “2016/9/25” for JP locale

If you wish to configure this time format - override this resource id :

```
<string name="lp_date_format"></string>
```

With any **date** format. For ex. - “MMM d, yyyy”, “EEEE dd/mm/yy” etc.

Resolve message

Resolve message use default **SHORT date** and **SHORT time** according to the locale (default or custom) and to device setting.

If device is set to 12 hours format (US locale):

“Conversation resolved by [agent name] \n 9/25/16 , 3:30pm”

If device is set to 24 hours format (US locale):

“Conversation resolved by [agent name] \n 9/25/16 , 15:30”

In case you want special **date/hour** format, you can use

```
<string name="lp_date_time_format"></string>
```

With any **date & time** format. For ex. - “MMM d, yyyy hh:mm a”, “EEEE dd/mm/yy HH:mm” etc..

CSAT Behavior

Overview

This document describes the CSAT behaviour and configurations in the Messaging SDK.

You can find all the related configurations in the resources ID table, under [Survey Screen](#).

Show CSAT flow

Show if:

1. CSAT configured to appear according to `<bool name="show_feedback">`
2. Conversation has an assigned agent.

3. Conversation's CSAT wasn't previously submitted.

Dismiss CSAT

The CSAT view is dismissed in one of four cases:

1. User pressed the submit button (answers are sent to the survey).
2. User choose to skip the CSAT (skipped button is pressed).
3. The CSAT is automatically dismissed if it was filled in any other device.
4. If agent resumed the conversation while csat is visible - it will automatically dismissed.

CSAT UI content

CSAT screen includes several content containers:

agentView (avatar and agent name)

1. Could be hidden or not according to `<bool name="show_agent_details_csat">`
2. Contains agent avatar:
 - a. If conversation has assigned agent and its image was downloaded previously using `profileUrl`, this image will be presented in the view.
 - b. If no image available, default avatar is presented. It's background and tint color is according to agent bubble with `lp_messaging_ui_ic_agent_avatar` and `agent_avatar_background_color`. More info in ['Configuring the SDK'](#)
3. Contains agent name:
 - a. By default it's an empty label.
 - b. If conversation has assigned agent, the agent's `nickName` will be used.

ratingQuestionView (stars)

1. Always visible - can't configure its visibility.
2. Stars color is defined by `<color name="feedback_fragment_star">`
3. Rating question includes 'Agent' by default in the text. If conversation has assigned agent and the agent's `nickName` is not empty, this `nickName` will be used instead.

resolutionConfirmationView (yes/no)

1. Could be hidden or not according to `<bool name="show_yes_no_question">`
2. If `agentView` is shown (`"show_agent_details_csat"`), this view will be always hidden (even if `"show_yes_no_question"` is set to true)
3. The question text color is defined with `<color name="feedback_fragment_title_yesno">` all the configuration related to Yes/No buttons explained in [Survey Screen](#) resources table and starting with the prefix : `"feedback_fragment_yesno_btn_"`.

Photo Sharing - Beta

Overview

This section describes the photo sharing behaviour and configurations in the Messaging SDK.

You can find all the related configurations in the resources ID table, under [Photo Sharing](#).

Notes:

- *This feature is available only for the In-App Messaging SDK.*
- *This features enables photo sharing only (not video/files).*
- *Photo-sharing is one-way only: Photos can be sent from consumer to agent, but not vice versa.*
- *Device storage includes up to 20 images - this is configurable.*
- *Supported formats: .png, .jpg, .gif (non-animated).*
- *Photo size reduction: Thumbnail - 30 KB, Preview -3 MB.*

Note: SDK version contains beta version of Photo sharing feature. For now the sdk doesn't support continuous uploading photos outside the conversation screen. Full-blown solution is under construction.

Enable Photo Sharing

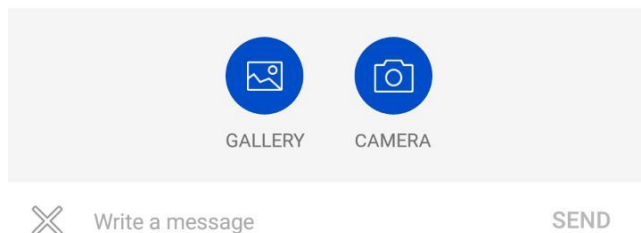
To enable/disable photo sharing you can change the boolean value `<bool name="enable_photo_sharing">` By default this value is set to false.

Upload Photo

To upload a photo, press on the “attach” button next to “enter message” edit text



A menu will open with 2 options: Gallery and Camera. If the user had set a default app for any of those action- it will be open by default. Otherwise Android OS will open a popup menu with all the available apps for the relevant category (gallery or camera).



Changing the background color of attachment menu is available with configuration :

```
<color name="attachment_menu_item_background_color">
```

Changing the text of Gallery/Camera:

```
<string name="lp_accessibility_gallery">
```

```
<string name="lp_accessibility_camera">
```

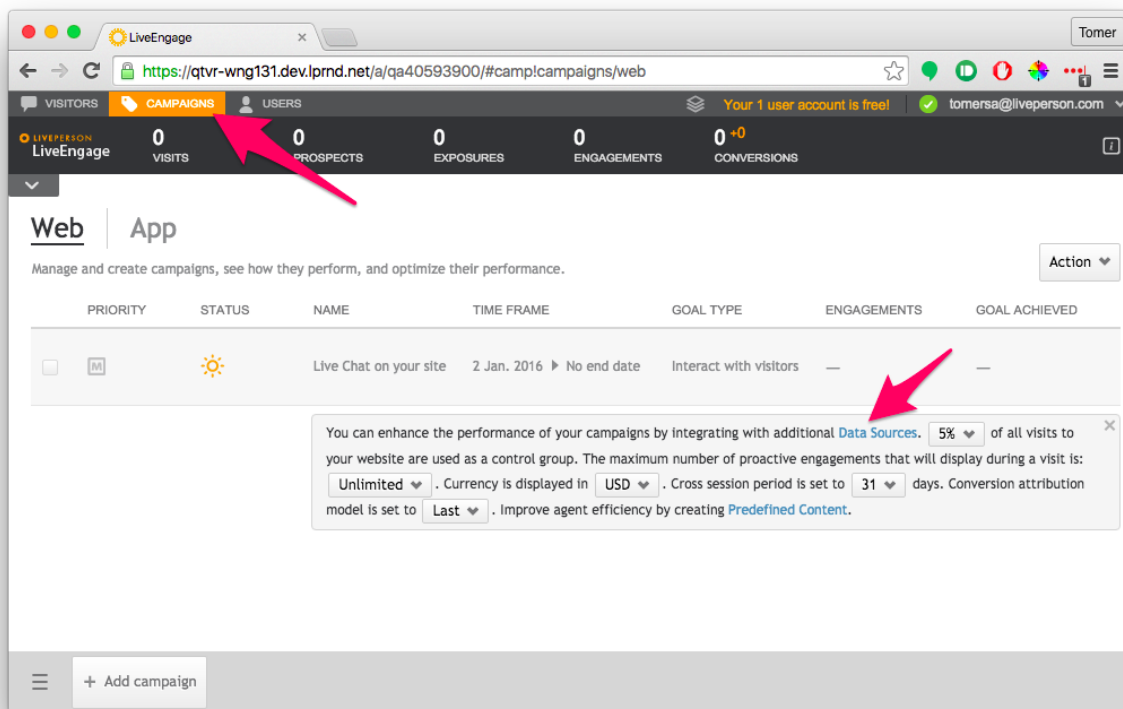
Advanced features

More advanced configurations (image size, compression rate, etc..) [here](#)

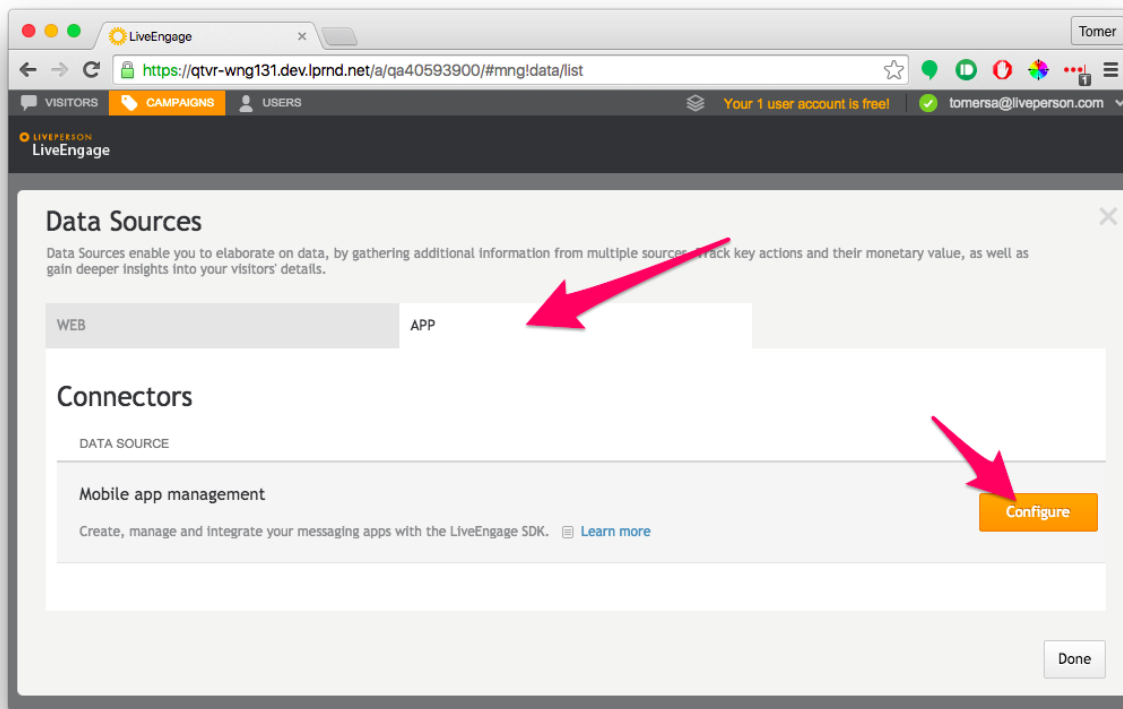
LiveEngage Configuration

Enable Push Notifications

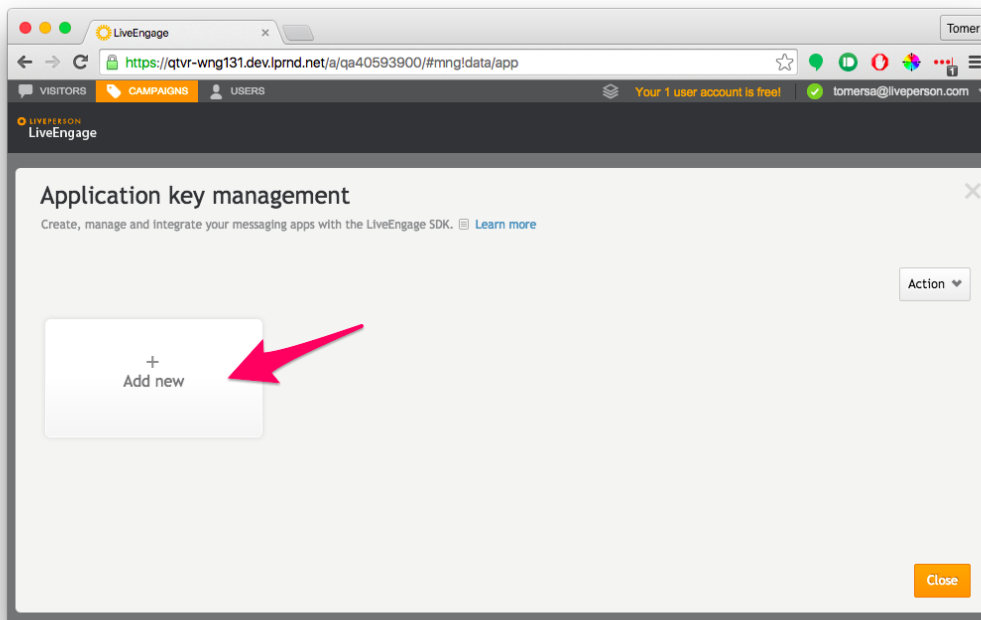
Log into your LiveEngage account using an administrator's credentials and navigate to **Campaigns**.



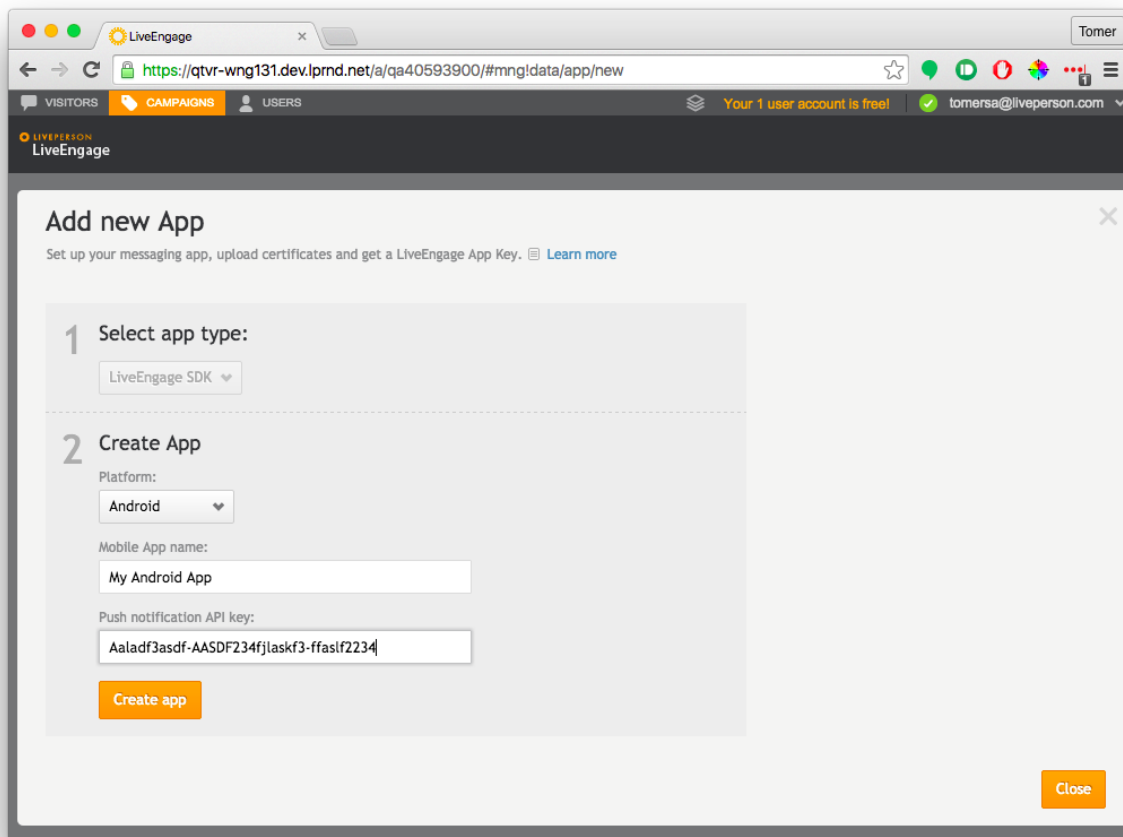
1. Click **Data Sources**, and then select **App**.



2. Click **Configure**.



3. Click **Add new** to associate your app with the LiveEngage account.
4. Select your platform as Android, enter your app's name and your push notification API key, and then click **Create app**.
Refer to the [Notifications](#) section on how to get the notification API key.



The screenshot shows a web browser window with the LiveEngage interface. The main content area is titled 'Add new App' and includes a sub-header: 'Set up your messaging app, upload certificates and get a LiveEngage App Key. [Learn more](#)'. The form is divided into two sections: '1 Select app type:' and '2 Create App'. In the first section, 'LiveEngage SDK' is selected in a dropdown menu. The second section contains three input fields: 'Platform:' with 'Android' selected, 'Mobile App name:' with 'My Android App' entered, and 'Push notification API key:' with 'Aaladf3asdf-AASDF234fjlaskf3-ffaslf2234' entered. An orange 'Create app' button is located below the API key field. A 'Close' button is positioned at the bottom right of the form area. The browser's address bar shows the URL 'https://qtrv-wng131.dev.lpmc.net/a/qa40593900/#mngldata/app/new'. The top navigation bar includes links for 'VISITORS', 'CAMPAIGNS', and 'USERS', along with a status message 'Your 1 user account is free!' and a user profile 'tomersa@liveperson.com'.

4. Click **Close** to finish the process.

Appendix

Security

Security is a top priority and key for enabling trusted, meaningful engagements.

LivePerson's comprehensive security model and practices were developed based on years of experience in SaaS operations, close relationships with Enterprise customers' security teams, frequent assessments with independent auditors, and active involvement in the security community.

LivePerson has a comprehensive security compliance program to help ensure adherence to internationally recognized standards and exceed market expectations. Among the standards LivePerson complies with are: SSAE16 SOC2, ISO27001, PCI-DSS via Secure Widget, Japan's FISC, SafeHarbor, SOX, and more.

Our applications are developed under a strict and controlled Secure Development Life-Cycle: Developers undergo secure development training, and security architects are involved in all major projects and influence the design process. Static and Dynamic Code Analysis is an inherent part of the development process and, upon maturity, the application is tested for vulnerabilities by an independent penetration testing vendor. On average, LivePerson undergoes 30 penetration tests each year.

Dependencies

com.squareup.okhttp3:okhttp:3.4.1

An HTTP+HTTP/2 client for Android and Java applications

com.neovisionaries:nv-websocket-client:1.30

High-quality WebSocket client implementation in Java.

com.squareup.picasso:picasso:2.5.2

An Android library for managing images and the memory they use.

Open Source List

Name	Site	Licence

Picasso	http://square.github.io/picasso/	http://square.github.io/picasso/#license
OKHTTP	http://square.github.io/okhttp/	https://github.com/square/okhttp/blob/master/LICENSE.txt
nv-websocket-client	https://github.com/TakahikoKawasaki/nv-websocket-client	https://github.com/TakahikoKawasaki/nv-websocket-client/blob/master/LICENSE

Localization Strings

Android resources introduction:

Android resources are: Strings, drawables, layouts etc. During compile time, all resources are moved to the same location. App resources receive higher priority, and, due to this, in case the SDK and the App share the same resource name, the value of the App will be used. This is under OS responsibility.

Language implementation:

SDK language support is split into two scenarios:

- **Device settings:** Uses device settings language → App's language is identical to the device language.
- **Host app settings:** App sets its own language regardless of device settings language → language may be different from device language.

Note: The SDK language will be the same as the app language. The SDK cannot work with a language that is different from the app language. If the SDK does not support the app language, it will use the default language instead.

The SDK contains a *values* folders for each supported language. For a list of supported languages, see [LiveEngage System Requirements and Language Support](#). Each folder contains a strings file, where all strings are located for a specific language. Learn more about supporting different languages [here](#).

The SDK allows you to override the string localization of any supported language in LiveEngage. To apply a custom localization files with your own strings, create a strings file in the app's values folder (specific values folder for the required language). This option gives the ability to change strings, and to support languages that the SDK currently does not support.

Note: In order to avoid collisions, each [SDK resource](#) starts with a prefix of "lp". This is to avoid cases where the SDK and the host app use the same ID for a specific string, for example, dialog done button.

*Example: <string name="lp_resend_failed_masked_message">Message failed to send.
Please re-enter message and send again.</string>*

Demo Project

The SDK is provided with a sample application called "SampleApp" that demonstrate the use of the SDK in a host app.

Project structure explained

MainActivity class

This is the main class of the application. It gets the user data (first name, last name, the phone), the account number and authentication code (if required by the account) in order to set them to the SDK.

The main screen has two buttons to optionally open the conversation in Activity mode or in Fragment mode.

The Language and Region controls are used to test localization.

Sample Application

Account ID: _____

Auth Code: _____

OPEN ACTIVITY

OPEN FRAGMENT

First Name: _____

Last Name: _____

Phone Number: _____

▼ language region

UPDATE LANGUAGE CLEAR ☐ Set Callback

January 22, 2017
1:07:30 PM
SDK version 2.0.0.17

setCallback method

Sets the host app implementation of [LivePersonCallback](#) to the SDK. This implementation simply display a toast message on every callback received.

initActivityConversation method

Opens the conversation view in Activity mode (see [Quick Start](#))

openFragmentContainer method

Opens the conversation view in Fragment mode (see [Quick Start](#)).

This method starts the [FragmentContainerActivity](#) that is simply the fragment container for the conversation fragment obtained from the SDK.

FragmentContainerActivity class

This is an activity class that has a fragment container. It gets the conversation fragment from the SDK (*LivePerson.getConversationFragment()*) and attach it to the container.

Push package

The *push* package contains sample code for implementing push notification in both [Google GCM](#) or [Google FCM](#). This is a simple code taken from Google documentation and integrated to be used in SampleApp and the Messaging SDK.

branding.xml

Demonstrate the overriding of parameters (e.g. colors, dimensions etc.) used by the SDK. Please refer to the [Configuring the SDK](#) section for more details.

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