LiveEngage Enterprise In-App Messenger SDK Deployment Guide: iOS v2.3.0

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Security

Quick Start

The LivePerson 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 iOS device and LiveEngage. To complete this Quick Start, you will need a LiveEngage account. You can get the number and login information from the LivePerson account team.

Prerequisites

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

- XCode 8.3 or later
- Swift 3.1 or later, or Objective-C

Note: For information on supported operating systems and devices, refer to <u>System Requirements</u>.

Step 1: Download and unzip the SDK

- 1. Click here to download the SDK package.
- 2. Once downloaded, extract the ZIP file to a folder on your Mac.

Step 2: Configure project settings to connect LiveEngage SDK

- 1. Copy the files into the project.
- 2. In project settings, navigate to the **General** tab, and add all Framework files to the **Embedded Binaries** section.



- 3. In the **General** tab, make sure that the framework files are under **Embedded Libraries**.
- 4. In Build settings, make sure Always Embed Swift Standard Libraries is set to YES.
- 5. Due to a new Apple policy for iOS 10 (or later), apps must declare in their project settings which privacy settings may be used. For more information, refer to Apple's website.

In Xcode info.plist of the project, add two new privacy keys and values:

- Key: NSPhotoLibraryUsageDescription, Value: "Photo Library Privacy Setting for LiveEngage iOS SDK",
- Key: NSCameraUsageDescription, Value: "Camera Privacy Setting for LiveEngage iOS SDK"

This step is required in order to be able to upload your host app into the App Store, as SDK 2.0 has the ability to share photos from the camera and/or photo library.

Note: Due to Apple policy, this step is mandatory even if the photo sharing feature is disabled in the SDK.

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

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

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

```
bash \ "\$\{BUILT\_PRODUCTS\_DIR\}/\$\{FRAMEWORKS\_FOLDER\_PATH\}/LPInfra.framework/frameworks-strip.sh"
```

Step 3: Initialization

1. Inside AppDelegate, under didFinishLaunchingWithOptions, add the following code:

```
do {
    try LPMessagingSDK.instance.initialize("Your Account ID")
} catch {
    // SDK has an initialization error...
    return
}
```

2. Set up and call the conversation view. You'll need to provide your LivePerson account number and a container view controller.

```
let conversationQuery =
   LPMessagingSDK.instance.getConversationBrandQuery(accountNumber)

LPMessagingSDK.instance.showConversation(conversationQuery, authenticationCode:
   accountNumber, containerViewController: self)
```

3. In order to remove the conversation view when your container is deallocated, run the following code:

```
let conversationQuery =
   LPMessagingSDK.instance.getConversationBrandQuery(accountNumber)

LPMessagingSDK.instance.removeConversation(conversationQuery)
```

Advanced Configurations

SDK Initialization and Lifecycle

In order to get started and initialize the In-App Messaging SDK, utilize the following functions:

```
    public func initialize(brandID: String? = nil) throws
    public func showConversation(conversationQuery: ConversationParamProtocol, authenticationCode: String? = nil, containerViewController: UIViewController? = nil)
    public func removeConversation(conversationQuery: ConversationParamProtocol)
    <LPMessagingSDKdelegate> optional func LPMessagingSDKConnectionStateChanged(isReady: Bool, brandID: String)
    <LPMessagingSDKdelegate> func LPMessagingSDKError(error: NSError)
    <LPMessagingSDKdelegate> optional func LPMessagingSDKHasConnectionError(error: String?)
```

Supporting functions:

- public func getConversationBrandQuery(brandID: String) -> ConversationParamProtocol
- public func getConversationBrandAndSkillQuery(brandID: String, skillID: String) -> ConversationParamProtocol
- 3. public func getConversationConsumerQuery(consumerID: String?, brandID: String, agentToken: String) -> ConversationParamProtocol
- 4. public func isBrandReady(brandID: String) -> Bool

SDK Delegates

The SDK uses 2 delegates:

- 1. <u>LPMessagingSDKDelegate</u> for lifecycle and connectivity events.
- 2. <u>LPMessagingSDKNotificationDelegate</u> for handling push and in app notifications.

You should implement and set the delegate for the above in order to receive notification from the SDK.

Authentication

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

- public func reconnect(conversationQuery: ConversationParamProtocol, authenticationCode: String)
- 2. LPMessagingSDKdelegate> func LPMessagingSDKAuthenticationFailed(error: NSError)
- 3. <LPMessagingSDKdelegate> func LPMessagingSDKTokenExpired(brandID: String)

UI

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

- 1. public func toggleChatActions(accountID: String, sender: UIBarButtonItem? = nil)
- <LPMessagingSDKdelegate> optional func LPMessagingSDKActionsMenuToggled(toggled: Bool)
- 3. <LPMessagingSDKdelegate> optional func LPMessagingSDKCustomButtonTapped()
- 4. <LPMessagingSDKdelegate> optional func
 LPMessagingSDKAgentIsTypingStateChanged(isTyping: Bool)
- 5. <LPMessagingSDKdelegate> optional func LPMessagingSDKOffHoursStateChanged(isOffHours: Bool, brandID: String)
- 6. <LPMessagingSDKdelegate> optional func LPMessagingSDKConversationViewControllerDidDismiss()

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.

```
    <LPMessagingSDKdelegate> optional func

   LPMessagingSDKConversationStarted(conversationID: String?)
2. <LPMessagingSDKdelegate> optional func
   LPMessagingSDKConversationEnded(conversationID: String?)
func LPMessagingSDKConversationEnded(_ conversationID: String?, closeReason:
   LPConversationCloseReason)
4. public func checkActiveConversation(conversationQuery: ConversationParamProtocol) ->
5. public func markAsUrgent(conversationQuery: ConversationParamProtocol)
6. public func isUrgent(conversationQuery: ConversationParamProtocol) -> Bool
7. public func dismissUrgent(conversationQuery: ConversationParamProtocol)
8. public func resolveConversation(conversationQuery: ConversationParamProtocol)
9. <LPMessagingSDKdelegate> optional func
   LPMessagingSDKConversationCSATDismissedOnSubmittion(conversationID: String?)
10. <LPMessagingSDKdelegate> optional func
   LPMessagingSDKCSATScoreSubmissionDidFinish(brandID: String, rating: Int)
11. public func clearHistory(conversationQuery: ConversationParamProtocol) throws
12. public func logout()
13. public func destruct()
```

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.

```
    public func handlePush(userInfo: [NSObject : AnyObject])
    public func registerPushNotifications(token token: NSData, notificationDelegate: LPMessagingSDKNotificationDelegate? = nil, alternateBundleID: String? = nil)
```

3. <LPMessagingSDKNotificationDelegate> optional func LPMessagingSDKNotification

(didReceivePushNotification notification: LPNotification)

- 4. <LPMessagingSDKNotificationDelegate> optional func
 LPMessagingSDKNotification(shouldShowPushNotification notification: LPNotification) ->
 Bool
- 5. <LPMessagingSDKNotificationDelegate> optional func LPMessagingSDKNotification(customLocalPushNotificationView notification: LPNotification) -> UIView
- 6. <LPMessagingSDKNotificationDelegate> optional func LPMessagingSDKNotification(notificationTapped notification: LPNotification)

User Data

Pass and display consumer information to agents, and agent information to consumers.

- public func setUserProfile(lpuser: LPUser, brandID: String)
- 2. public func getAssignedAgent(conversationQuery: ConversationParamProtocol) -> LPUser?
- 3. <LPMessagingSDKdelegate> optional func LPMessagingSDKAgentDetails(agent: LPUser?)

Logs and Info

Send logs from LiveEngage to your app. Logs include different severity levels of errors and warnings.

- public func subscribeLogEvents(logLevel: LogLevel)
- <LPMessagingSDKdelegate> func LPMessagingSDKObseleteVersion(error: NSError)
- 3. public func getSDKVersion() -> String?
- public func printAllLocalizedKeys()
- 5. public func printSupportedLanguages()
- 6. public func getAllSupportedLanguages() -> [String : String]

App Extensions

In order to make sure the SDK uses the iOS keyboard only, and not third party ones, disable app extensions for keyboard as follows:

In your AppDelegate, add the method application(:shouldAllowExtensionPointIdentifier:) with the implementation of:

```
func application(_ application: UIApplication, shouldAllowExtensionPointIdentifier
  extensionPointIdentifier: UIApplicationExtensionPointIdentifier) -> Bool {
    return extensionPointIdentifier != UIApplicationExtensionPointIdentifier.keyboard
}
```

API Methods

Name	Description
<u>initialize</u>	Initialize the resources required by the SDK.
showConversation	Open the conversation screen.
removeConversation	Remove the SDK UI and clean the service or network operation that was running.
<u>reconnect</u>	Reconnect with new authentication key.
toggleChatActions	Open or close the SDK menu.
checkActiveConversation	Check whether there is an active conversation.
markAsUrgent	Mark the current conversation as urgent.
isUgent	Check whether the current conversation is marked as urgent.
dismissUrgent	Cancel the markAsUrgent API.
<u>resolveConversation</u>	Resolve the current conversation.
clearHistory	Clear all conversations from device.
<u>logOut</u>	Logout from the SDK - when all user data should be removed.
destruct	Close all active connections and remove conversation view.
<u>handlePush</u>	Receive all incoming push messages in a single function.
<u>registerPushNotifications</u>	Register to LPMessagingSDK push notifications.
<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>getAssignedAgent</u>	Get assigned agent details of last / current conversation.
<u>subscribeLogEvents</u>	Subscribe to log events.
getSDKVersion	Get current SDK version string.
printAllLocalizedKeys	Prints all localized strings keys
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<u>printSupportedLanguages</u>	Prints the SDK supported languages
getAllSupportedLanguages	Get all supported languages as Strings dictionary

initialize

The SDK initialization is done only once, inside appdelegate. This function checks that the SDK has all mandatory preconditions. For example, it is able to find the bundle file, verify that all the pre-defined configurations are valid, and more. If any of the preconditions are not met, an exception is thrown. Once an exception is thrown, you must not do any other call to the SDK.

func initialize(_ brandID: String? = nil) throws	
brandld	An account ID

showConversation

This method is used to open the conversation screen.

func showConversation(_ conversationQuery: ConversationParamProtocol, authenticationCode: String? = nil, containerViewController: UIViewController? = nil)		
conversationQuery	The conversation query represents a 'filter' for the conversation screen, determining which of the conversations will be displayed in the following screens. The default conversationQuery sorts the conversations by account number. See helpers methods above for how to generate a conversation query.	
authenticationCode	The SDK can enable code-flow SSO. If your account uses SSO, pass the auth-code here. Otherwise, skip this parameter.	

containerViewController	The SDK needs a container view controller. This can be done in two ways:
	a. View Controller mode. If you provide a container viewController, the SDK will put itself inside as a child viewController. This mode allows you to keep your own navigation bar intact. Using this method, you can use the provided callbacks to retrieve data from the SDK and show it in the navigation bar (users profile data, avatar URL, calling menu items, etc.)
	b. Window mode
	If you don't provide a container view controller, the SDK places its UI components on top of the app UI, including the navigation bar.

removeConversation

When navigating out of the conversation screen, remove the view controller from its container. This is done by calling remove conversation API. The method will remove the SDK UI and clean the service or network operation that was running.

func removeConversation(_ conversationQuery: ConversationParamProtocol)		
conversationQuery	The conversation query represents a 'filter' for the conversation screen, determining which of the conversations will be displayed in the following screens. The default conversationQuery sorts the conversations by account number. See helpers methods above for how to generate a conversation query.	

reconnect

When using SSO in an authenticated connection, an auth-code is passed to the SDK (see showConversation API). The session in this case might have an expiration date (see LPMessagingSDKTokenExpired). To reconnect with a new token, use the following 'reconnect' API and pass the new token.

func reconnect(_ conversationQuery: ConversationParamProtocol, authenticationCode: String)		
conversationQuery	The conversation query represents a 'filter' for the conversation screen, determining which of the conversations will be displayed in the following screens. The default conversationQuery sorts the conversations by account number. See helpers methods above for how to generate a conversation query.	
authenticationCode	The SDK can enable code-flow SSO. If your account uses SSO, pass the auth-code here. Otherwise, skip this parameter.	

toggleChatActions

This API call is used to open or close the SDK menu.

- If you're using window mode, you won't need to utilize this method as the SDK will have a dedicated button in the navigation bar to toggle the menu.
- If you are using <u>view controller</u> mode, you may call this API to open the SDK menu, or use other APIs to build your own menu.

func toggleChatActions(_ accountID: String, sender: UIBarButtonItem? = nil)		
accountID	An account ID	
sender	An optional UIBarButtonItem to use for toggling the chat actions	

checkActiveConversation

Check if there is an active conversation by passing a conversation query.

- Note that conversation query defines a filter that fetches conversations which match certain conditions. Each query can have one active conversation at most.
- Conversation is said to be active the moment an 'ack' is received from the server. It may not yet have an assigned agent.

 You may call this API only if you are sure that the SDK is in sync with the server, meaning LPMessagingSDKConnectionStateChanged was invoked and isReady is set to true.

func checkActiveConversation(_ conversationQuery: ConversationParamProtocol) -> Bool		
conversationQuery	The conversation query represents a 'filter' for the conversation screen, determining which of the conversations will be displayed in the following screens. The default conversationQuery sorts the conversations by account number. See helpers methods above for how to generate a conversation query.	

markAsUrgent

A consumer can mark a conversation as urgent in order to request a faster response from the agent. You can call the API only if there's an active conversation, otherwise an alert will be triggered. The conversation is marked as urgent only after an ACK is received from the server.

func markAsUrgent(_ conversationQuery: ConversationParamProtocol)	
conversationQuery	The conversation query represents a 'filter' for the conversation screen, determining which of the conversations will be displayed in the following screens. The default conversationQuery sorts the conversations by account number. See helpers methods above for how to generate a conversation query.

isUrgent

Checks if the active conversation (if existing) is marked as urgent. Otherwise returns false.

Note that you must check that the SDK is in <u>ready state</u> before calling this method.

func isUrgent(_ conversationQuery: ConversationParamProtocol) -> Bool	
conversationQuery	The conversation query represents a 'filter' for the conversation screen, determining which of the conversations will be displayed in the following screens. The default conversationQuery sorts the conversations by account number. See helpers methods above for how to generate a conversation query.

dismissUrgent

This API is used to cancel the <u>markAsUrgent</u> API. It will reset the SLA for the agent response back to default. This API can be called only for open conversations.

func dismissUrgent(_ conversationQuery: ConversationParamProtocol)	
conversationQuery	The conversation query represents a 'filter' for the conversation screen, determining which of the conversations will be displayed in the following screens. The default conversationQuery sorts the conversations by account number. See helpers methods above for how to generate a conversation query.

resolveConversation

This API enables a conversation to be resolved. The API will request the server to mark the active conversation as resolved. If there is no active conversation, an alert will be displayed.

func resolveConversation(_ conversationQuery: ConversationParamProtocol)	
conversationQuery	The conversation query represents a 'filter' for the conversation screen, determining which of the conversations will be displayed in the following screens. The default conversationQuery sorts the conversations by account number.

See helpers methods above for how to generate a conversation query.

clearHistory

This API may be used only when there is no active conversation. This API clears the local database. The history is still available on the server, but won't be retrieved from the specific device unless a fresh installation is made.

func clearHistory(_ conversationQuery: ConversationParamProtocol) throws	
conversationQuery	The conversation query represents a 'filter' for the conversation screen, determining which of the conversations will be displayed in the following screens. The default conversationQuery sorts the conversations by account number. See helpers methods above for how to generate a conversation query.

logout

This method is a destructive method that is typically used to clean a user's data before a second user logs into the same device. This method conducts the following:

- Unregisters from the push notification service.
- Clears all SDK persistent data.
- Cleans running operations (see destruct).

func logout()			

destruct

func destruct()

handlePush

In order to receive all incoming push notifications in a single function and handle them, add the following method. This method cooperates with two other API methods:

- This method calls the <u>shouldShowPushNotification</u> method. If the host app returns false, the SDK will not show anything to the UI.
- Otherwise, the SDK will ask the host app to provide a view as an in-app notification. If the host app doesn't implement this method, the SDK will use its own implementation.

func handlePush(_ userInfo: [AnyHashable : Any])	
userInfo	A dictionary that contains information related to the remote notification. This is the exact same dictionary as received in application(_:didReceiveRemoteNotification:fetchCompletionHandler:) method

registerPushNotifications

Register to LPMessagingSDK push notifications with the following code in AppDelegate:

 Note that push notifications must be pre-configured, and an APN certificate has to be uploaded to the LiveEngage platform. See more info on how to configure push notifications.

func registerPushNotifications(token: Data, notificationDelegate: LPMessagingSDKNotificationDelegate? = nil, alternateBundleID: String? = nil)	
token	A token that identifies the device to APNs. The token is an opaque data type because that is the form that the provider needs to submit to the APNs servers when it sends a notification to a device. The APNs servers require a binary format for performance reasons.
	This is the exact same dictionary as received in

	application:didRegisterForRemoteNotificationsWithDeviceToken: method
notificationDelegate	An implementer of LPMessagingSDKNotificationDelegate.
alternateBundleID	An optional value that can be used so that the LivePerson pusher service identifies your app with this identifier. In debug mode, the SDK appends "-dev" string to the bundle ID.

setUserProfile

Add custom parameters about the user and set them for the messaging agent.

func setUserProfile(_ lpuser: LPUser, brandID: String)		
lpuser	object is an instance of <u>LPUser</u> . <u>Example:</u> let user = LPUser(firstName: "John", lastName: "Doe", profileImageURL: "URL of image", phoneNumber: "555-55555")	
brandId	An account ID	

getAssignedAgent

Get assigned agent details of the last or current conversation - depending on retrieveAssignedAgentFromLastClosedConversation in the LPConfig defaultConfiguration.

You must check that the SDK is ready before calling this method.

func getAssignedAgent(_ conversationQuery: ConversationParamProtocol) -> LPUser?	
conversationQuery	The conversation query represents a 'filter' for the conversation screen, determining which of the conversations will be displayed in the following screens. The default conversationQuery sorts the

conversations by account number.
See helpers methods above for how to generate a conversation query.

subscribeLogEvents

Subscribe to log events (Trace, Debug, Info, Warning, Error). Each time a log event with the passed log level occurs, the callback will be invoked with the log object.

func subscribeLogEvents(_ logLevel: LogLevel, logEvent: @escaping LogEventClosure)			
logLevel	object is an instance of <u>LPLog</u> .		
logEvent	The completion block will pass <u>LPLog</u> object which consists all the information for the log.		

getSDKVersion

Get current SDK version string.

func getSDKVersion() -> String?

printAllLocalizedKeys

Prints all localized strings' keys

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func printAllLocalizedKeys()

printSupportedLanguages

Prints the SDK supported languages

func printSupportedLanguages()

getAllSupportedLanguages

Get all supported languages as Strings dictionary where:

Key - Locale key

Value - explicit language name (example: "English", "Portuguese (Brazil)", ...)

func getAllSupportedLanguages() -> [String : String]

Interface and class definitions

LPUser

```
class LPUser: NSObject {
    var firstName: String?
    var lastName: String?
    var profileImageURL: String?
    var phoneNumber: String?
    var employeeID: String?
```

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```
var uid: String?
}
```

LPLog

```
class LPLog: NSObject {
    var timestamp: String?
    var className: String?
    var funcName: String?
    var text: String?
    var logLevel: LogLevel?
}
```

LogLevel

```
enum LogLevel: Int {
    case TRACE
    case DEBUG
    case INFO
    case WARNING
    case ERROR
    case OFF
}
```

LPNotification

```
class LPNotification: NSObject {
    var text: String
    var user: LPUser
    var accountID: String
    var isRemote: Bool
    var toString : String
}
```

LPConversationCloseReason

```
public enum LPConversationCloseReason: Int {
    case agent = 0
    case consumer
    case system
}
```

Callbacks Index

The SDK uses 2 delegates:

- 1. <u>LPMessagingSDKDelegate</u> for lifecycle and connectivity events
- 2. <u>LPMessagingSDKNotificationDelegate</u> for handling push and in app notifications

LPMessagingSDKDelegate

```
protocol LPMessagingSDKdelegate {
```

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```
optional func LPMessagingSDKCustomButtonTapped()
   optional func LPMessagingSDKAgentDetails(_ agent: LPUser?)
   optional func LPMessagingSDKAgentAvatarTapped(_ agent: LPUser?)
   optional func LPMessagingSDKActionsMenuToggled(_ toggled: Bool)
   optional func LPMessagingSDKHasConnectionError(_ error: String?)
   optional func LPMessagingSDKCSATScoreSubmissionDidFinish( brandID: String, rating: Int)
   optional func LPMessagingSDKCSATCustomTitleView(_ brandID: String) -> UIView
   func LPMessagingSDKObseleteVersion( error: NSError)
   func LPMessagingSDKAuthenticationFailed(_ error: NSError)
   func LPMessagingSDKTokenExpired(_ brandID: String)
   func LPMessagingSDKError(_ error: NSError)
   optional func LPMessagingSDKAgentIsTypingStateChanged(_ isTyping: Bool)
   optional func LPMessagingSDKConversationStarted(_ conversationID: String?)
   optional func LPMessagingSDKConversationEnded(_ conversationID: String?)
   optional func LPMessagingSDKConversationEnded(_ conversationID: String?, closeReason:
LPConversationCloseReason)
   optional func LPMessagingSDKConversationCSATDismissedOnSubmittion(_ conversationID:
String?)
   optional func LPMessagingSDKConnectionStateChanged( isReady: Bool, brandID: String)
   optional func LPMessagingSDKOffHoursStateChanged(_ isOffHours: Bool, brandID: String)
   optional func LPMessagingSDKConversationViewControllerDidDismiss()
}
```

LPMessagingSDKCustomButtonTapped

<u>In window mode only</u>, the app can place a custom button in the SDK UI. When the button is tapped, the following delegate method is invoked:

```
LPMessagingSDK.instance.delegate = self

When this button is pressed, it will call the following delegate:

func LPMessagingSDKCustomButtonTapped() {
    UIApplication.sharedApplication().openURL(NSURL(string: "tel://55555555")!)
}
```

LPMessagingSDKAgentDetails(agent: LPUser?)

Called when agent details are received or updated. For every message, the SDK checks for agent details in order to determine whether the assigned agent was changed. If there is no assigned agent, agent will be nil, for instance, when the consumer is returned to queue.

LPMessagingSDKAgentAvatarTapped(agent: LPUser?)

Called when the user tapped on the agent's avatar in the conversation and also in the navigation bar within window mode.

LPMessagingSDKActionsMenuToggled(toggled: Bool)

Called when the action menu is toggled.

LPMessagingSDKHasConnectionError(error: String?)

Called whenever the SDK receives a connection error from the socket.

LPMessagingSDKCSATScoreSubmissionDidFinish(brandID: String, rating: Int)

When a conversation is resolved, a feedback page is presented (CSAT - Customer Satisfaction).

This delegate method is invoked after the CSAT is submitted. If the user chooses to skip the CSAT, the delegate method is called with score=0.

LPMessagingSDKCSATCustomTitleView(brandID: String) -> UIView

Custom Title view for to display in the CSAT survey view.

LPMessagingSDKObseleteVersion(error: NSError)

Called when the SDK version is obsolete and needs to be updated.

LPMessagingSDKAuthenticationFailed(error: NSError)

Called when the current session fails due to an authentication error.

LPMessagingSDKTokenExpired

Called when the current session fails due to an authentication error.

LPMessagingSDKError(error: NSError)

Called when the SDK has a general error.

If there is an SDK initialization error, the SDK can not proceed, and you should not call any other SDK API.

There are also other possible errors such as send message error.

LPMessagingSDKAgentlsTypingStateChanged(isTyping: Bool)

Called when the typing state of the agent is changed.

LPMessagingSDKConversationStarted(conversationID: String?)

Called when a new conversation is started.

LPMessagingSDKConversationEnded(conversationID: String?)

Called when an open conversation is ended by the consumer or by the agent or automatically by the system.

LPMessagingSDKConversationEnded(_ conversationID: String?, closeReason: LPConversationCloseReason)

Called when an open conversation is ended by the consumer or by the agent or automatically by the system. Close reason is the conversation ended with type <u>LPConversationCloseReason</u>

LPMessagingSDKConversationCSATDismissedOnSubmittion(conversationID: String?)

Called after CSAT screen is dismissed by clicking **Submit**.

LPMessagingSDKConnectionStateChanged

Invoked when the connection state is changed.

- isReady: Bool Set to true when the SDK is connected and in sync with the server.
- brandID: String Brand account number

LPMessagingSDKOffHoursStateChanged(isOffHours: Bool, brandID: String)

Delegate which is called when an off hours state changes.

LPMessagingSDKConversationViewControllerDidDismiss()

Delegate which is called when the conversation viewcontroller is dismissed (both for window mode and viewController mode).

LPMessagingSDKNotificationDelegate

```
protocol LPMessagingSDKNotificationDelegate {
    optional func LPMessagingSDKNotification(didReceivePushNotification notification:
    LPNotification)
    optional func LPMessagingSDKNotification(shouldShowPushNotification notification:
    LPNotification) -> Bool
    optional func LPMessagingSDKNotification(customLocalPushNotificationView notification:
    LPNotification) -> UIView
    optional func LPMessagingSDKNotification(notificationTapped notification: LPNotification)
```

}

LPMessagingSDKNotification(didReceivePushNotification notification: LPNotification)

Called when handling the push notifications, the SDK will form up a struct: LPNotification, which will then be passed to the host app.

LPMessagingSDKNotification(shouldShowPushNotification notification: LPNotification) -> Bool

Called after calling <u>handlePush</u>, the SDK will ask the host app if it should display an in-app notification in the UI. (See <u>handlePush</u> for the full description).

LPMessagingSDKNotification(customLocalPushNotificationView notification: LPNotification) -> UIView

If shouldShowPushNotification is not implemented, or it returns yes, the app can implement this method for showing an in-app notification in the UI. In case the method is not implemented, the SDK will provide and show its own view. Note that setting the custom view's Frame is advised and not its Bounds.

```
func LPMessagingSDKNotification(customLocalPushNotificationView notification:
    LPNotification) -> UIView {
        guard let delegate = UIApplication.shared.delegate as? AppDelegate, let window
        e delegate.window else { return UIView() }
        view.frame = CGRect(x: 0, y: 0, width: window.bounds.size.width, height: 85)
        return view
    }
}
```

LPMessagingSDKNotification(notificationTapped notification: LPNotification)

Called when tapping a local notification message bar when a remote push notification received. You should implement this delegate method if you wish to navigate and show the conversation screen.

```
func LPMessagingSDKNotification(notificationTapped notification: LPNotification) {
```

```
// Navigate to a desired view controller
}
```

Configuring the SDK

The SDK allows you to configure the look and feel of your app using LPConfig object. To apply a custom look and feel, create your own configuration instance and assign the attributes you want to customize.

The most suitable time to customize configuration is right after the SDK initialization and before calling showConversation().

To get the default configuration:

```
let configuration = LPConfig.defaultConfiguration
```

To print all configurable attributes and their default values call:

```
LPConfig.printAllConfigurations()
```

To customize an attribute, follow this example:

```
configuration.remoteUserBubbleBackgroundColor = UIColor.purpleColor()
configuration.brandName = "Brand Name"
configuration.remoteUserBubbleBorderWidth = 0.5
```



Attributes

The table below lists the available attributes which can be used to personalize your app. The **Default / Customer notes** column includes space for you to add your own branding.

Name	Туре	Description	Example	Default
Users Bubble				
remoteUserBubble BackgroundColor	UIColor	Color code for the background of the remote user bubble.	Hello, how may I assist you? 1 min ago	#004DC9
remoteUserBubble BorderColor	UIColor	Color code for the outline color.	Hello, how may I assist you? 4 min ago	#004DC9
remoteUserBubble LinkColor	UIColor	Color code for links in the text of the remote user bubble.	Hi, please visit <u>www.liveperson.com</u>	UIColor.white
remoteUserBubble TextColor	UIColor	Color code for the text of the remote user bubble.	Hello, how may I assist you? 6 min ago	UIColor.white
remoteUserBubble BorderWidth	Double	Double number for the outline width.	Hello, how may I assist you?	2
remoteUserBubble TimestampColor	UIColor	Color code for the timestamp of the remote user bubble.	Hello, how may I assist you? 7 min ago	#5B5C5E

remoteUserTyping TintColor	UIColor	Color of the remote user typing bubbles animation.	Q •••	UIColor.white
userBubbleBackgr oundColor	UIColor	Color code for the background of the visitor bubble.	Hello there, I need some help!	#EDEDED
userBubbleBorder Color	UIColor	Color code for the outline color.	Hello there, I need some help!	#EDEDED
userBubbleLinkCo lor	UIColor	Color code for links in the text of the visitor bubble.	www.liveperson.com Now	#0000ee
userBubbleTextCo lor	UIColor	Color code for the text of the visitor bubble.	Hello there, I need some help! 3 min ago	UIColor.black
userBubbleBorder Width	Double	Double number for the outline width.	Hello there, I need some help! Distributed Now	1
userBubbleTimest ampColor	UIColor	Color code for the timestamp of the visitor bubble.	Hello there, I need some help!	#5B5C5E
userBubbleSendSt atusTextColor	UIColor	Color code for the send status text of the visitor bubble.	Hi Read 3:42 PM	#5B5C5E
userBubbleErrorT extColor	UIColor	Color code for the error view text of the visitor bubble.	Perfor message	#DE0A23

userBubbleErrorB orderColor	UIColor	Color code for the error view border of the visitor bubble.	① Error message	#DE0A23
bubbleEmailLinks Regex	String?	Regular expression for email hyperlinks in users messages (consumer and agent). This attribute is optional - If not assigned, the default link detection will be enabled		nil
bubbleUrlLinksRe gex	String?	Regular expression for url hyperlinks in users messages (consumer and agent). This attribute is optional - If not assigned, the default link detection will be enabled		nil
bubblePhoneLinks Regex	String?	Regular expression for phone hyperlinks in users messages (consumer and agent). This attribute is optional - If not assigned, the default link detection will be enabled		nil

Link Preview				
enableLinkPrevie w	Bool	Enable or disable link preview feature. If disabled, user will not see site's link preview or link preview.		true
linkPreviewBackg roundColor	UIColor	Color code for the background of the link preview area inside cell.		UIColor.white
linkPreviewTitle TextColor	UIColor	Color code for the title text inside link preview area inside cell.		UIColor.black
linkPreviewDescr iptionTextColor	UIColor	Color code for the description text inside link preview area inside cell.		#5B5C5E
linkPreviewSiteN ameTextColor	UIColor	Color code for the description site name link preview area inside cell.		#E2E3E3

linkPreviewBorde rWidth	Double	Double number for the outline width of link preview area inside cell.		1.0
linkPreviewStyle	LPUrlPre viewStyl e	Refers to the style in which the link preview cell will be displayed	Slim: http://petapixel.com/2016/12/10/ shoot-frozen-action-sports-athletes- photo-studio How to Shoot 'Frozen' Action Sports Athletes in a Photo Studio For his recent project titled Frozen, photographer Denis Kle 5:22 PM Large: http://petapixel.com/2016/12/10/ shoot-frozen-action-sports-athletes- photo-studio How to Shoot 'Frozen' Action Sports Athletes in a Photo Studio For his recent project titled Frozen, photographer Denis Klero shot creative studio portraits of action sports athletes in a way that makes them look like 5:22 PM	LPUrlPrevie wStyle .slim
linkPreviewSiteN ameTextColor	UIColor	Color code for the description site name link preview area inside cell.		
urlRealTimePrevi ewBackgroundColo r	UIColor	The background color of the url real time preview	Space.com Get the latest space exploration, innovation and SPACE	UIColor.white

urlRealTimePrevi ewBorderColor	UIColor	The border color of the url real time preview	Space.com Get the latest space exploration, innovation and SPACE SPACE	
urlRealTimePrevi ewBorderWidth	CGFloat	The border width of the url real time preview	Space.com Get the latest space exploration, innovation and SPACE	
urlRealTimePrevi ewTitleTextColor	UIColor	The title text color of the url real time preview	Space.com Get the latest space exploration, innovation and SPACE X	
urlRealTimePrevi ewDescriptionTex tColor	UIColor	The description text color of the url real time preview	Space.com Get the latest space exploration, innovation and SPACE X	
useNonOGTagsForL inkPreview	Bool	urlPreview will also use non og tags to parse urls instead of using only og tags if useNonOGTagsFor LinkPreview is true		true

Photo Sharing			
enablePhotoShari ng	Bool	True Enables Photo Sharing feature False Disables Photo Sharing	false

maxNumberOfSaved FilesOnDisk	Int	This number represents how many files will be saved on the disk. Exceeding files are deleted when the app closes.		20
fileCellLoaderFi 1lColor	UIColor	Radial loader fill color		UlColor(whit e: 0.0, alpha: 0.5)
fileCellLoaderRi ngProgressColor	UIColor	Radial loader progress color		UIColor.white
fileCellLoaderRi ngBackgroundColo r	UIColor	Radial loader progress background color		UIColor.light Gray
photosharingMenu BackgroundColor	UIColor	Photo Sharing menu background color	Photo Library Take Photo	#0362AC
photosharingMenu ButtonsBackgroun dColor	UIColor	Photo Sharing menu buttons background color	Photo Library Take Photo	UIColor.white

photosharingMenu ButtonsTintColor	UIColor	Photo Sharing menu buttons tint color	Photo Library Take Photo	#0362AC
photosharingMenu ButtonsTextColor	UIColor	Photo Sharing menu buttons text color	Photo Library Take Photo	UIColor.white

Note: Camera button, in the input text view, disabled/enabled color will change according to sendButtonDisabledColor and sendButtonEnabledColor configurations.

Send Button			
sendButtonDisabl edColor	UIColor	Color code for Send and Camera (of Photo Sharing) buttons in disabled mode.	#AAAAAA
sendButtonEnable dColor	UIColor	Color code for Send and Camera (of Photo Sharing) buttons in disabled mode.	#0362AC
isSendMessageBut tonInTextMode	Bool	Two options for send message button mode: Send message button in "text mode"	Default mode is text

- will be taken from localized resources	
Send message button in "icon mode"	

System Messages				
systemBubbleText Color	UIColor	Color code for the text of the system messages.	Now Conversation resolved by you Sunday 05/01/16 03:14 PM	UIColor.black

Window Mode				
customButtonImag e	UIImage	In window mode only: Custom button icon image. This will be displayed on the navigation bar. When the button is pressed, a dedicated callback will be invoked. (See LPMessagingSDKC ustomButtonTapped for more information).	Carrier ♥ X Si00 PM X eldar Dahan Q ooo	nil

Delivery Notificati	ons			
checkmarkVisibil	Checkmar ksState (Integer Enum)	Checkmark visibility of the following options (type CheckmarksState): SentOnly - Show checkmarks for only Sent messages. SentAndAccepted - Show checkmarks for only Sent and Accepted messages. All - Show checkmarks for Sent, Accepted and Read messages.	###	Checkmarks State .All
checkmarkReadCol or	UIColor	Color of checkmark indication signs of Read messages.	Hi there 2 min ago	#004DC9
checkmarkDistrib utedColor	UIColor	Color of checkmark indication signs of Distributed messages.	Hi there Now	#5B5C5E
checkmarkSentCol or	UIColor	Color of checkmark indication signs of Sent messages.	Hi there Now	#5B5C5E

isReadReceiptTex tMode	Bool	Two options for read indication: • Read Receipt with Text Mode	Hi there 1 min ago I need your help 1 min ago	true
		 Read Receipt with Icon Mode 		
		If the parameter set as true the mode will be Text.		
		If the parameter set as false the mode will be Icon.		
		Default value is true.		

CSAT Buttons				
csatSubmitButton CornerRadius	Double	Corner radius of the Submit button.	Submit	30
csatSubmitButton BackgroundColor	UIColor	Background color code of the Submit button.	Submit	#229A49
csatSubmitButton TextColor	UIColor	Text color code of the Submit button.	Submit	UIColor.white

csatRatingButton SelectedColor	UIColor	Background Color code of the rating buttons.	★★★☆ SATISFIED	#229A49
csatResolutionBu ttonSelectedColo r	UIColor	Color code for the resolution confirmation buttons (YES/NO) when selected.	Did we solve your issues today? NO YES	#229A49

CSAT Survey				
csatAllTitlesTex tColor	UIColor	Title text color for all labels.	BrandName How would you rate the connection with our agent? Did we solve your issues today!	UIColor.black
			Your feedback helps us serve you better. It will not be shared with any Customer Service Representative. Submit	
csatResolutionHi dden	Bool	Hides the yes/no question.	Did we solve your issues today? NO YES	false

csatAgentViewHid den	Bool	Hides the view of agent avatar and name.	Elina	true
csatThankYouScre enHidden	Bool	Hides the Thank You screen after tapping Submit button.	Carrier ♥ 1:25 PM X BrandName Survey submitted successfully. Thank you.	false
csatNavigationBa ckgroundColor	UIColor	Background color of the navigation of the survey.	Sarrier ♥ 3:49 PM X BrandName	#229A49
csatNavigationTi tleColor	UIColor	Text color of the title in the survey navigation.		UIColor.white
csatSkipButtonCo lor	UIColor	Skip survey button color.		UlColor.black
csatUIStatusBarS tyleLightContent	Bool	Allow the UI status bar to take the color of the survey navigation bar color.		true
csatShowSurveyVi ew	Bool	Hides the whole survey view and disables it.		true
csatSurveyExpira tionInMinutes	UInt	Expiration of CSAT in minutes from the moment the conversation was ended. If Survey exceeded the		1440

expiration, it will not be presented to the user. Default 24H

Conversations				
maxPreviousConve rsationToPresent	UInt	Number of conversations to show in advance.		2
deleteClosedConv ersationOlderTha nMonths	UInt	Upon SDK initialization, all closed conversations with an end date older than X months will be deleted from the database. Setting 0 will delete all closed conversations.		13
sendingMessageTi meoutInMinutes	UInt	Maximum number of minutes to send the message		60
conversationSepa ratorTextColor	UIColor	Conversation separator text and line color	Conversation resolved by You 12/13/16, 9:34 AM	UlColor.black
enableConversati onSeparatorTextM essage	Bool	Toggle conversation separator text message when conversation	Conversation resolved by You 12/13/16, 9:34 AM	true

		resolved from agent or consumer		
enableConversati onSeparatorLine	Bool	Toggle conversation separator line when conversation resolved from agent or consumer	Conversation resolved by You 12/13/16, 9:34 AM	true
enableVibrationO nMessageFromRemo teUser	Bool	Toggle vibration sound when a new message from a remote user received		false

Unread Messages					
scrollToBottomBu ttonBackgroundCo lor	UIColor	Scroll to bottom button background color of the whole button	are you there?	UIColor.black	
scrollToBottomBu ttonMessagePrevi ewTextColor	UIColor	Scroll to bottom button text color of the last unread message preview	are you there?	UIColor.white	
scrollToBottomBu ttonBadgeBackgro undColor	UIColor	Scroll to bottom button unread message badge background color	are you there?	#E7242D	

scrollToBottomBu ttonBadgeTextCol or	UIColor	Scroll to bottom button unread message badge text color	are you there?	UIColor.white
scrollToBottomBu ttonArrowColor	UIColor	Scroll to bottom button arrow tint color	are you there?	UIColor.white
unreadMessagesDi viderBackgroundC olor	UIColor	Unread Messages divider background color	1 UNREAD MESSAGES	#F5F5F5
unreadMessagesDi viderTextColor	UIColor	Unread Messages divider text color	1 UNREAD MESSAGES	#004DC9
scrollToBottomBu ttonEnabled	Bool	Toggle the mode of the Scroll to bottom button		true
scrollToBottomBu ttonMessagePrevi ewEnabled	Bool	Toggle the mode of the Scroll to bottom unread message text preview		true
unreadMessagesDi viderEnabled	Bool	Toggle the mode of the Unread Messages divider. If disabled, scroll to bottom button will scroll to bottom although we can have new messages and don't show the badge at		true

	all nor "new message preview"		
--	----------------------------------	--	--

Localization					
country	String?	Country code: When it is not nil, it will be combined with 'language' ("language_country" , for example: en_US) and used instead of device default locale when formatting date and time. If no value is provided, the SDK will use the country according to the device's locale.		nil	
language	LPLanguage	Language that will be used instead of default device language. Its type is LPLanguage enum that contains all the languages that are supported by MessagingSDK. It will affect the following areas: 1. Will be used when getting localized strings 2. Will be combined with		DeviceLangu age	

'country' ("language_country" , for example: en_US) and used instead of default device locale when formatting time and date. If no value is provided, the SDK will use the device's language as default.	
--	--

Brand					
brandName	String	The brand name will be shown as a title on toolbar when there is no active conversation.		"BrandName	
conversationBack groundColor	UIColor	Color code for the entire view background.		UIColor.white	

Date Separator				
dateSeparatorTit leBackgroundColo r	UIColor	Color code for date separator title background color.	Today	UIColor.white

dateSeparatorTex tColor	UIColor	Color code for date separator text color.	Today	#46474A
dateSeparatorLin eBackgroundColor	UIColor	Color code for date separator line background color.	Today ———	UIColor.clear
dateSeparatorBac kgroundColor	UIColor	Color code for date separator background color.	(Jun 28, 2016) ————————————————————————————————————	#FFFFFF

User input view					
inputTextViewCon tainerBackground Color	UIColor	User Input TextView container background color.	Write a message	Send	#F5F5F5
inputTextViewCor nerRadius	Double	User Input TextView corner radius.	Write a message	Send	17.0

Agent Assignment				
retrieveAssigned AgentFromLastClo sedConversation	Bool	When using "getAssignedAgent" method, this option lets you decide whether to get assigned agents from active conversations only,		true

or also from the last closed conversation in case there is no active conversation. If not assigned agent is available this method will return nil.
--

Duration of Local Notifications				
notificationShow DurationInSecond s	Double	Display duration of the local notification in seconds. Examples: TimeToRespond notification, local notification, etc. Note: this parameter will be extended to 60sec when in VoiceOver mode.		3 (60 when in VoiceOver mode)

Time To Response and Off hours				
ttrShowShiftBann er	Bool	Ability to enable/disable shift		true

		toaster ('An agent will respond')		
ttrFirstTimeDela Y	Double	TTR - Time To Respond. Number of seconds before the first TTR notification appears.		10
ttrShouldShowTim estamp	Bool	TTR - Time To Respond. Enable: Displays a time stamp in the TTR notification. Disable: Displays: "An agent will respond shortly".	Carrier 3:15 PM The associate should respond within the next 1 hour Carrier 3:16 PM	false
ttrShowFrequency InSeconds	UInt	Controls the TTR frequency: Don't show the TTR more than once in X seconds.		8
showUrgentButton InTTRNotificatio n	Bool	TTR - Time To Respond Enable presentation of Urgent button in the TTR notification.	Carrier The associate should respond within the next 2 hours Carrier 3:15 PM The associate should respond within the next 1 hour	false

showOffHoursBann er	Bool	Ability to disable/enable the off-hours toaster.	Thanks for your message. We will be back online Tomorrow at 9:00 AM	true
ttrBannerBackgro undColor	UIColor	Color of background for banner.	The associate should respond within the next 1 hour Conversation ended by You	#52A742
ttrBannerTextCol	UIColor	Text color of the banner.	The associate should respond within the next 59 minutes Sefvery	#52A742
ttrBannerOpacity Alpha	Double	Opacity level of the banner background (values: 0.0 - 1.0).	Carrier © 3:15 PM The associate should respond within the next 1 hour	0.8
offHoursTimeZone Name	String	Off Hours time zone name string based on [NSTimeZone knownTimeZoneNames]. If sending empty string, the local timezone will be used (Server sends UTC time).		""

Date and Time				
lpDateFormat	String?	Custom formatting for date string (day, year), for example: 'd MMM'. If not defined, one of the default styles		nil

		timestamps formatting).	
lpTimeFormat	String?	Custom formatting for time string (hours, IpDateTimeFormat minutes), for example: 'hh:mm a'. If not defined, one of the default styles will be used (see timestamps formatting).	nil
lpDateTimeFormat	String?	Custom formatting for date and time string, for example: 'EEEE MM/dd/YY hh:mm a'. If not defined, one of the default styles will be used (see timestamps formatting).	nil

Toast Notifications				
toastNotificatio nsEnabled	Bool	Enable toast notifications such as offline and TTR notifications False:		true

		Disable toast notifications.		
csdsDomain	String	CSDS Domain URL. For brands that need to control the URL that is the gateway for LivePerson services, use this key to set a URL of your choice.	"https://adminlogin.liveperson.r nt/%@/service/baseURI.json?v	

User Avatar				
remoteUserAvatar BackgroundColor	UIColor	Background color of the remote user's avatar.		#004DC9
remoteUserAvatar IconColor	UIColor	Icon color of default remoteUser avatar.	#0362AC	#FFFFFF
brandAvatarImage	UIImage?	Set avatar image for brand. This is an optional UlImage that if is set to nil a default avatar will be presented. Image ratio should be 1:1 (square) and at least 50x50 pixels.		nil

csatAgentAvatarB ackgroundColor	UIColor	Background color of agent's default avatar in CSAT.		#004DC9
csatAgentAvatarI conColor	UIColor	Icon color of agent's default avatar in CSAT.	Q	#FFFFFF

Data Masking				
enableClientOnly Masking	Bool	Determines whether to enable using regular expression to control which part of the text to mask, all masked data will appear as asterisks, will be saved to local db masked and will be sent to the server unmasked.		false
enableRealTimeMa sking	Bool	Determines whether to enable using regular expression to control which part of the text to mask, all masked data will appear as asterisks, will be saved to local db masked and sent to the server masked.		false

	l		
clientOnlyMaskin gRegex	String	Regular expression string to control which part of the text to mask, all masked data will appear as asterisks, will be saved to local db masked and will be sent to the server unmasked. Default is empty, meaning no regex. The regular expression patterns and behavior are based on Perl's regular expressions. See Apple Reference.	***************************************
realTimeMaskingR egex	String	Regular expression string to control which part of the text to mask. All masked data will appear as asterisks, will be saved to local db masked, and will be sent to the server unmasked. Default is empty, meaning no regex. The regular expression patterns and behavior are based on Perl's	***************************************

regular expressions. See	
Apple Reference.	

Navigation			
conversationNavi gationBackground Color	UIColor	Background color of navigation bar in conversation screen.	#0362AC
conversationNavi gationTitleColor	UIColor	Navigation title color in conversation screen.	#FFFFFF
conversationStat usBarStyle	UIStatus BarStyle	Status bar style in conversation screen.	.LightContent

Secure Form			
secureFormBackBu ttonColor	UIColor	Back button color in secure form screen	UIColor.black
secureFormUIStat usBarStyleLightC ontent	Bool	Should display status bar of the secure form screen in Light Content Mode (UIStatusBarStyle)	true

secureFormNaviga tionBackgroundCo lor	UIColor	Background color of navigation bar in secure form screen		#0362AC
secureFormNaviga tionTitleColor	UIColor	Navigation title color in secure form screen		UIColor.white
secureFormBubble BackgroundColor	UIColor	Secure form bubble background color		UIColor.white
secureFormBubble BorderColor	UIColor	Secure form bubble border color		#d4d4d5
secureFormBubble BorderWidth	Double	Secure form bubble border width in pixels		2.0
secureFormBubble TitleColor	UIColor	Secure form bubble form title color		UIColor.black
secureFormBubble DescriptionColor	UIColor	Secure form bubble fill form text button color		#5b5c5e
secureFormBubble FillFormButtonTe xtColor	UIColor	Secure form bubble fill form text button color		#004dc9
secureFormBubble FillFormButtonBa ckgroundColor	UIColor	Secure form bubble fill form button background color		UlColor.clear
secureFormBubble FormImageTintCol or	UIColor	Secure form bubble form image tint color		#004dc9

Deprecated Attributes

Listed below are attributes that have been deprecated. These keys should no longer be used as LPConfig files, but rather as Localised strings keys. The names of these keys in the Localisation files remain the same as in the LPConfig files.

In order to configure different string for this key, see String localization in SDK.

Note: By default, these keys are configured with Localization keys values, and are sensitive to any language changes. These keys must be reconfigured each time a language is changed.

Attribute name	Туре	Description
customButtonDescription	String	Accessibility voiceover string for the custom button.
readReceiptTextDistributed	String	Text for distributed indication.
csatResolutionFeedbackText	String	Text for the feedback label.
csatResolutionQuestionText	String	Text for the resolution confirmation question.
readReceiptTextSent	String	Text for sent indication.
readReceiptTextRead	String	Text for read indication.
readReceiptTextSending	String	Text for sending indication.
sendButtonDisabledTextColor	UIColor	Send button color in disabled mode in the conversation screen

Send button color in enabled mode in the conversation screen
User text underline color
•

String localization in SDK

The SDK contains language folders for each language supported. For a list of supported languages, see <u>LiveEngage System Requirements and Language Support</u>. Each folder contains LPLocalizable.strings file, where all strings are located for a specific language.

The example below contains four language folders:

- en.lproj: strings in English. Used in case the host app/device language is not supported by us.
- o fr.lproj: strings in French.
- pt.lproj: strings in Portuguese.
- o pt-PT.lproj: strings in Portuguese (Portugal).

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 LPLocalizable.strings files for relevant languages inside your app, which will include the keys you would like to override.

Example: Overriding the SDK string of 'send' in English:

- 1. Create in your app a new localization Base file called *LPLocalizable.strings* which will include your supported language: 'New file...' -> 'Strings file' -> 'Create'
- 2. Add new key: "send" = "<ANY NEW VALUE>";
- 3. Mark this LPLocalizable.strings file as localized: Tap on LPLocalizable.strings file
 -> Open the file inspector -> Go to 'Localization' section -> Tap 'Localize...'
- 4. Adding a new supported language
 - Open project settings
 - Info tab
 - Under Localizations, press '+' sign
 - Choose the new language you would like to support.

Attaching a Strings file to existing supported languages:

- Choose the desired strings file
- Open the file inspector
- Under localizations, choose the relevant languages.

Your 'send' string implementation will override the localization in English in the SDK

In order to print all localized keys with a default English value in the SDK, call the following:

LPMessagingSDK.instance.printAllLocalizedKeys()

In order to get or print all localized supported languages in the SDK, call the following:

LPMessagingSDK.instance.printSupportedLanguages()

In order to get all supported languages by key-value (key is locale key and value is language description), call the following:

LPMessagingSDK.instance.getAllSupportedLanguages()

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Note: The SDK uses native iOS control for the Copy/Paste menu. The language of the menu control is defined by the current device language if the host app is localized for this language. If the host app does not have this language, the last menu control language will be used.

Localization Keys

Listed below are all localized keys with the English localization string.

Attribute name	String Localization
customButtonAccessibilityDesc ription	"Call"
readReceiptTextDistributed	"Distributed"
conversationEndedByAgent	"Conversation resolved by %@ \n %@"
conversationEndedByAgentWitho utName	"Conversation resolved by Agent \n %@"
conversationEndedByYou	"Conversation resolved by You \n %@"
cancel	"Cancel"
hiMessage	"How can I help you today?"
sentMessageErrorTitle	"Message was not sent"
retry	"Retry"
sentMailErrorTitle	"Mail not sent"

sentMailErrorMessage	"Email could not be sent. Please try again later."
callTo	"Call %@"
sendMessage	"Send Message"
facetimeAudio	"FaceTime Audio"
sendEmailTitle	"Send Email"
sendEmailMessage	"Would you like to send an email to %@?"
notNow	"Not now"
yes	"Yes"
feedbackYesButtonTitle	"Yes"
feedbackNoButtonTitle	"No"
cantSendMail	"Can't send email"
noEmailOnDeviceError	"No email is defined on this device"
dismissUrgent	"Dismiss urgency"
dismissUrgentConfirmation	"Are you sure you want to mark this conversation as not urgent?"
dismiss	"Dismiss"
markAsUrgent	"Mark as urgent"
markAsUrgentConfirmation	"Are you sure you want to mark this conversation as urgent?"

urgent	"Urgent"
noInternetConnection	"No Internet Connection"
ok	"OK"
markAsEndedConfirmation	"Are you sure this topic is resolved?"
endTheConversation	"Resolve the conversation"
ttrResponseMessage	"An agent will respond within the next %@"
rateConnectionWithAgent	"How would you rate your\nconnection with our agent?"
rateConnectionWithName	"How would you rate your\nconnection with %@?"
veryDissatisfied	"Very Dissatisfied"
dissatisfied	Dissatisfied
neither	"Neither"
satisfied	"Satisfied"
verySatisfied	"Very Satisfied"
writeMessage	"Write a message"
olderMessages	"Older messages"
numberOfDays	"%d days"
day	"1 day"

numberOfHours	"%d hours"
oneHour	"1 hour"
oneMinute	"1 minute"
numberOfMinutes	"%d minutes"
minutesAgo	"%d min ago"
send	"Send"
submit	"Submit"
today	"Today"
noSocketConnectivity	"No connectivity to server\nPlease try again"
conversationAlreadyEnded	"This conversation has already been resolved."
loadingHistoryMessages	"Loading"
and	"and"
anAgentWillRespondShortly	"An agent will respond shortly"
nowTimestamp	"Now"
surveySubmittedSuccessfullyTh ankYou	"Survey submitted successfully.\nThank you!"
ttrOffHoursResponseMessageTod ay	"Thanks for your message. We will be back online Today at %@"
ttrOffHoursResponseMessageTom	"Thanks for your message. We will be back online Tomorrow

orrow	at %@"
ttrOffHoursResponseMessageDat e	"Thanks for your message. We will be back online %@"
maskedMessageResendError	"Message failed to send. Please re-enter message and send again."
systemMessageRealTimeMasked	"Your personal data has been masked to protect your security and cannot be read by the agent."
systemMessageClientOnlyMasked	"Your personal data has been masked to protect your security. Only the agent can read it."
offlineNotification	"Offline. Check your internet connection."
resolve	"Resolve"
unreadMessages	"%@ UNREAD MESSAGES"
invalidHyperLinkError	"Link is not valid"
accessibilityAgentDefaultAvat ar	"Agent"
accessibilityAgentIsTyping	"%@ is typing"
accessibilityAgentWithoutName IsTyping	"Agent is typing"
accessibilityMessageFromAgent WithName	"Agent %@: %@"
accessibilityMessageFromAgent WithoutName	"Agent: %@"
accessibilityMessageFromUser	"You: %@"

accessibilityCameraButton	"Camera"
accessibilityCloseScreenButto n	"Close"
accessibilityNavigationMenuBu tton	"Menu"
accessibilityCloseCameraButto n	"Close camera"
accessibilityMessageError	"Error"
accessibilityMessageErrorHint	"Tap to resend message"
accessibilityFileUploadAnnoun cement	"Uploading photo"
accessibilityFileDownloadAnno uncement	"Downloading photo"
accessibilityPhotoMessageFrom AgentWithName	"Agent %@: photo"
accessibilityPhotoMessageFrom AgentWithoutName	"Agent: photo"
accessibilityPhotoMessageFrom User	"You: photo"
accessibilityPhoto	"Photo"
accessibilityFileNoFileState	"Double tap to download"
accessibilityFileUploadingSta te	"Uploading"

accessibilityFileDownloadingS tate	"Downloading"
accessibilityFileSyncedState	"Double tap to open"
accessibilityFileDownloadedEr rorState	"Failed to download"
accessibilityFileNotAvailable State	"Not available"
accessibilityScrollIndicator	"Scroll indicator"
accessibilityRealTimeLinkPrev iewView	"Link preview"
accessibilityRealTimeLinkPrev iewClosePreviewButton	"Close link preview"
accessibilityRealTimeLinkPrev iewCloseButtonHint	"Press to close link preview"
accessibilityRealTimeLinkPrev iewTitle	"Link preview title"
accessibilityRealTimeLinkPrev iewDescription	"Link preview description"
accessibilityRealTimeLinkPrev iewImage	"Link preview image"
clearHistoryMenuTitle	"Clear history"
clearHistoryConfirmation	"All of your existing conversation history will be lost. Are you sure?"

clearHistoryFailureMessage	"Please resolve the conversation first."
clearHistoryConfirmButton	"Clear"
sharePhotoFromPhotoLibrary	"Photo Library"
sharePhotoFromCamera	"Take Photo"
tapToAddACaption	"Tap to add a caption"
errorSendingThePhoto	"Error sending the photo"
sorryWeveEncounteredAnErrorWh ileSendingThePhoto	"Sorry, we've encountered an error while sending the photo. Please try again."
readReceiptTextSending	"Sending"
readReceiptTextSent	"Sent"
readReceiptTextDistributed	"Distributed"
readReceiptTextRead	"Read"
secureFormExpiredMessage	"Secure form has expired. Please ask the agent to resend the form."
secureFormErrorMessage	"There was a problem opening this form. Please ask the agent to resend the form."
secureFormViewedMessage	"This form has already been viewed. Please ask the agent to resend the form."
secureFormFillFormButtonTitle	"Fill in form"

secureFormToFillInMessage	"This is a secure form. You have 30 minutes to fill in the form before it expires."
secureFormSubmittedMessage	"This form has been submitted and cannot be reopened for security reasons."
secureFormConsumerSubmissionM essage	"I have submitted the '%@' form"

Timestamps Formatting

Time/Date Styles

The iOS platform provides four different default types of date and time styles:

SHORT is completely numeric.

MEDIUM is longer and contains the first 3 letters of the month.

LONG is longer and contains the full month name.

FULL specifies the complete time and date.

iOS examples:

SHORT 12/13/52 or 3:30 PM MEDIUM Jan 12, 1952 LONG January 12, 1952 or 3:30:32 PM FULL Tuesday, April 12, 1952 AD or 3:30:42 PM PST.

The LPMessagingSDK uses default styles. Each feature has its own style. The style is flexible and adapts the 'locale' configuration of the device.

Example: US locale SHORT date is displayed as "9/25/16", whereas Japanese locale SHORT date is displayed as "2016/9/25".

A specific 'locale' which is different from the device locale can be set through the language and country configurations.

Example: country: String?, language: String?

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Time/Date formats:

It is also possible to configure a specific format for time and date instead of style.

If the host app has configured its own formatting, this formatting will be used instead of style (and therefore will not be affected by 'locale').

To configure the formatting by the host app, three configurable formatting resources have been added:

- 1. For date only (separator): lpDateFormat: String?
- 2. For time only (bubble's timestamp & off hours time in case of today/tomorrow):

lpTimeFormat: String?

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

lpDateTimeFormat: String?

Off Hours

Date & Time

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

If the device is set to 12 hour format:

"Thanks for your message. We will be back online today/tomorrow at 3:30 PM"

If the device is set to 24 hour format:

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

To use a different time format, you can use lpTimeFormat: String? with any time format.

Example: "hh:mm a", "HH:mm", etc.

 The Date off hours message (not today/tomorrow) uses default LONG date and SHORT time according to the locale (default or custom).

If the device is set to 12 hour format:

"Thanks for your message. We will be back online January 12, 2017 at 3:30 PM"

If the device is set to 24 hour format:

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

To use a different date/hour format, you can use lpDateFormat: String? with any date & time format.

Example: "MMM d, yyyy hh:mm a", "EEEE dd/mm/yy HH:mm" etc.

Timezone

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

offHoursTimeZoneName: String = ""

A list of timezone IDs can be found here.

Example: "US/Pacific", "Europe/Berlin".

Bubble timestamp

The Bubble timestamp contains the time only in the <u>SHORT</u> time format, according to the locale (default or custom) and to the device setting.

If the device is set to 12 hours format: "3:30 PM"

If the device is set to 24 hours format: "15:30"

If you wish to configure this time format, override the resource ID lpTimeFormat: String? with any time format.

Example: "hh:mm a", "HH:mm" etc.

Note: This applies to all bubble timestamps.

Separator timestamp

The Separator timestamp contains the date only in the <u>SHORT</u> 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 the resource ID lpDateFormat: String? with any date format.

Example: "MMM d, yyyy", "EEEE dd/mm/yy" etc.

Resolve message

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

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

"Conversation resolved by [agent name] \n 9/25/16, 3:30 PM"

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

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

To use a different date/hour format, you can use lpDateTimeFormat: String? with any date & time format.

Example: "MMM d, yyyy hh:mm a", "EEEE dd/mm/yy HH:mm" etc.

Limitation: If the formatting is changed after the Resolve messages already appears, this change will take no effect. This will be fixed in future versions.

OS Certificate Creation

In order for the push notification to work, you will need two .pem files:

- 1. A certificate file stored using a pem format.
- 2. A Key file stored using a pem format without a password.

Creating a Certificate Signing Request file

With this file, we will create both a .p12 file and a .crt file.

To manually generate a Certificate, you need a Certificate Signing Request (CSR) file from your Mac. To create a CSR file, follow the instructions below to create one using Keychain Access.

1. In the Applications folder on your Mac, open the Utilities folder, and launch Keychain Access.

Within the Keychain Access dropdown menu, select **Keychain Access** > **Certificate Assistant** > **Request a Certificate from a Certificate Authority**.

- 2. In the Certificate Information window, enter the following information:
 - o In the User Email Address field, enter your email address.
 - In the Common Name field, create a name for your private key, for example, John Doe Dev Key.
 - The CA Email Address field should be left empty.
 - o In the Request is group, select the Saved to disk option.
- 3. In Keychain Access, click **Continue** to complete the CSR generating process.

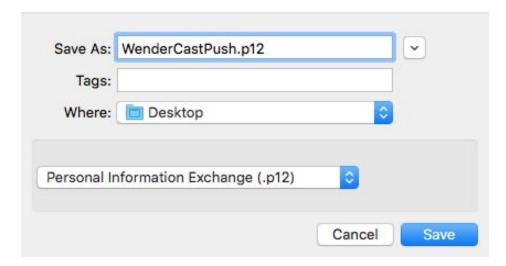
4. Download and run the certificate. The certificate is now added to your Keychain, paired with a private key:



Creating a key .p12 file



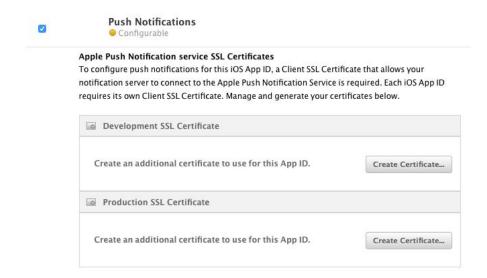
1. Right-click on your new push certificate and choose **Export**.



- 2. Save the certificate as pushNotification.p12 as a .p12 file.
- 3. You will be prompted to enter a password for the p12. You can either leave this blank or enter a password of your choosing.

Creating a push notification certificate. (der format .crt file)

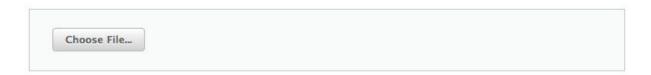
1. In the iOS member area, go to your app area.



2. Under Push Notification service SSL Certificates, select **Create Certificate** (Developer or Production).

Upload CSR file.

Select .certSigningRequest file saved on your Mac.



3. Choose the .csr file that you created in the previous stage.

Download, Install and Backup

Download your certificate to your Mac, then double click the .cer file to install in Keychain Access. Make sure to save a backup copy of your private and public keys somewhere secure.



4. Download the file. This file will be used to create the .pem format certificate.

Creating both key.pem file and cert.pem file

Note: This is used when configuring LiveEngage Push Notification.

- 1. Open the terminal and locate the folder in which you would like to save the file.
- 2. Create cert pem:

openssl x509 -in aps_development.cer -inform der -out cert.pem

3. Convert the private keys .p12 file into a .pem file:

openssI pkcs12 -nocerts -out keyWithPassword.pem -in key.p12

You will be prompted to enter a passphrase for this file. Enter any password and remember it for the next step.

4. RSA .pem key (no password)

openssl rsa -in hostkey.pem -out hostkey.pem

You will be prompted to enter a passphrase. Enter the same passphrase you used in the previous step.

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:

- CSAT configured to appear according to LPConfig.defaultConfiguration.csatShowSurveyView
- 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:

Agent View (avatar and agent name)

- 1. Could be hidden or not according to LPConfig.defaultConfiguration.csatAgentViewHidden
- 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
 - LPConfig.defaultConfiguration.csatAgentAvatarBackgroundColor and LPConfig.defaultConfiguration.csatAgentAvatarIconColor
- 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.

Rating Question View (stars)

1. Always visible - can't configure its visibility.

- 2. Stars color is defined by LPConfig.defaultConfiguration.csatRatingButtonSelectedColor
- 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.

Resolution Confirmation View (yes/no)

- 1. Could be hidden or not according to LPConfig.defaultConfiguration.csatResolutionHidden
- 2. If agentView is shown ("csatAgentViewHidden"), this view will be always hidden (even if "csatResolutionHidden" is set to true)
- 3. All titles colors defined with LPConfig.defaultConfiguration.csatAllTitlesTextColor

Photo Sharing (Beta)

Overview

This section describes the photo sharing behavior 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.

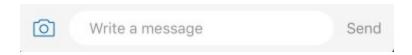
Enable Photo Sharing

To enable/disable photo sharing you can change the boolean value LPConfig.defaultConfiguration.enablePhotoSharing

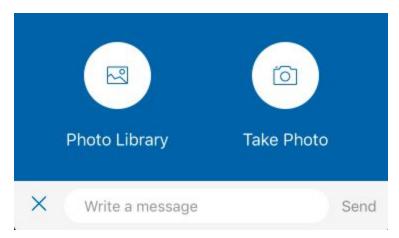
By default this value is set to false.

Upload Photo

To upload a photo, click the "attach" button next to "enter message" edit text.



A menu will open with 2 options: Photo Library and Camera.



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

LP Config. default Configuration. photosharing Menu Background Color

Changing the text of buttons:

LPConfig.defaultConfiguration.photosharingMenuButtonsTextColor Changing the menu button's background color:

LPConfig.defaultConfiguration.photosharingMenuButtonsBackgroundColor

Changing the menu button's tint color:

LPC on fig. default Configuration. photos having Menu Buttons Tint Color

Configuring Push Notifications

Follow the instructions below to set up your app key to enable push notifications.

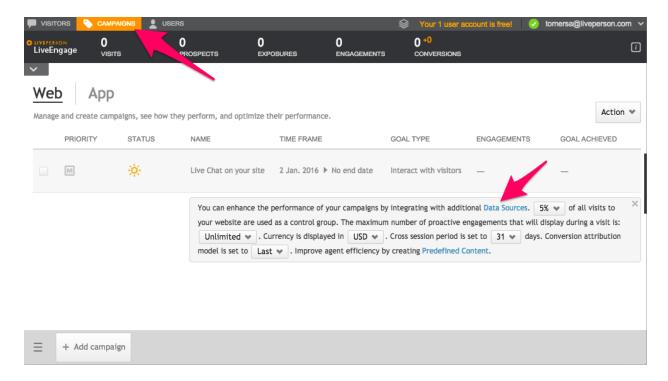
Note: Before you begin the setup, you must ensure your LiveEngage account is configured and connected to the SDK.

1. Enter your LiveEngage account through this Login URL.

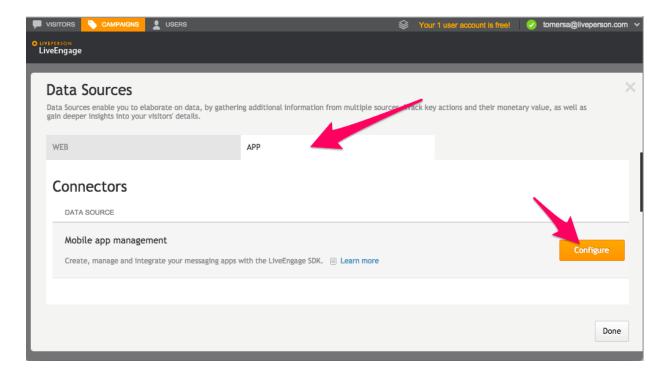
You will need the following info from your LivePerson account team:

- LiveEngage account number
- User ID (must be an administrator user)
- Password

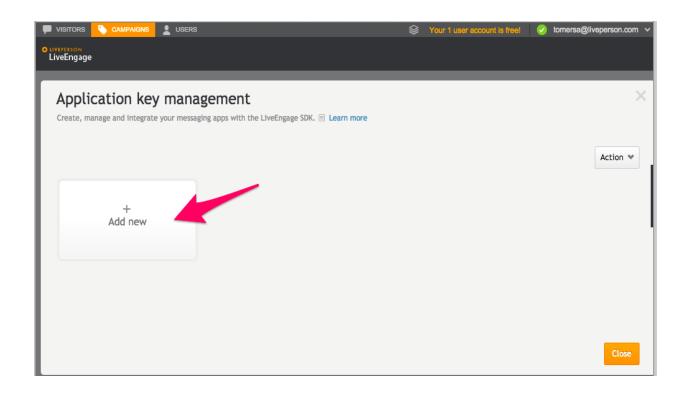
2. Within LiveEngage, navigate to Campaigns.



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

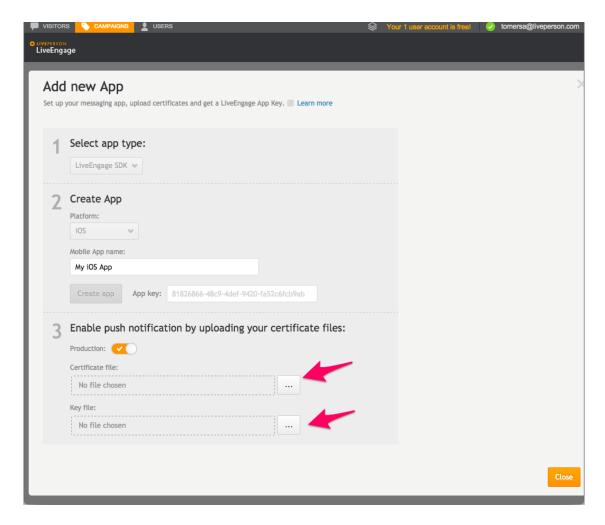


4. Click Configure.



- 5. Click **Add new** to associate your app with the LiveEngage account.
- 6. Select your platform as iOS, enter your app's name, and click **Create app**. Then, upload your app certificate and key file in the appropriate locations.

Note: If you are using a development certificate you should uncheck the Production checkbox and add Dev postfix to the Mobile app name. For example, if your app bundle ID is Appld, your mobile app name should be "Appld-Dev". If you are using a production certificate you should leave the production checkbox checked and insert to the Mobile App name your App bundle ID as it is.



7. Click Close to complete the process.

Open Source List

The following open source code is used within the LiveEngage SDK. Licensing terms for use of this code require you to mention the list of these sources in the end customer product or documentation. No additional fees or costs are associated with use of these sources.

Name	License
Reachability	Apple inc
SocketRocket	BSD
<u>UIRefreshControl+UITableView</u>	MIT
TTTAttributedLabel	<u>Apache</u>
NSDate+Extension	License

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.