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Mobile SDK IOS Guide

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[iOS] Mobile SDK Intro

Cardpay Unlimint mobile SDK for iOS (UnlimintSdk) helps you to:

Embed card data forms in the merchant's mobile app and securely collect and transmit the user's card data for:

- · Card tokenization (without a payment) on the Unlimint side
- Making a mobile payment
- Making a payment with card token

Installation

UnlimintSDK is available through CocoaPods

To install UnlimintSDK with CocoaPods, add the following lines to your Podfile.

Then run pod install command. For details of the installation and usage of CocoaPods, visit its official website.

Basic Usage

Environment

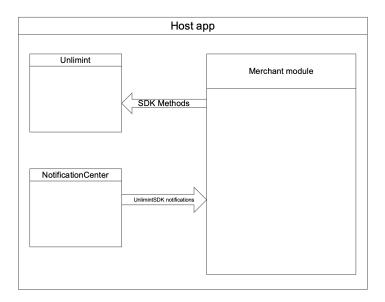
```
Unlimint.shared.environment = .sandbox
public enum Environments {
    case sandbox
    case prod
}
```

UI customization

Full info here. [iOS] Mobile SDK Customization

```
'Unlimint.shared.theme'
public struct Theme {
   public var navigationStyle: NavigationBarStyle
   public var mainButtonStyle: MainButtonStyle
   public var viewControllerStyle: ViewControllerStyle
   public init(navigationStyle: NavigationBarStyle = .init(bar: .largeNavBar,
                                                            statusBarStyle: .default,
                                                            navigationBarColor: .transparentDark,
                                                            tintColor: .clear),
                                mainButtonStyle: MainButtonStyle = .init(cornerRadius: 2,
                                                         titleColor: (UIConstants.Colors.primaryBlack,
                                                                      UIConstants.Colors.primaryGray),
                                                         \verb|backgroundColor: (UIConstants.Colors.primaryGreen,\\
                                                                          UIConstants.Colors.primaryWhite)),
                                viewControllerStyle: ViewControllerStyle = .init(backgroundColor: .white))
}
```

[iOS] Mobile SDK API description



Methods

Binding

Payment

Payment with token

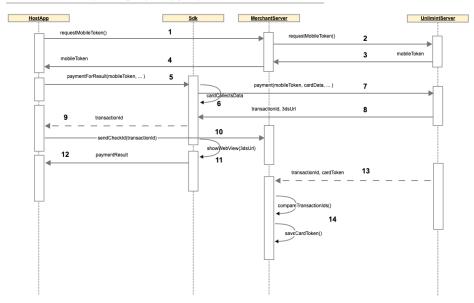
Payment with paypal

```
/**
Use this method for paypal payment.

*/
func paypalPayment(
   for mobileToken: String,
   with data: PaypalPaymentMethodData,
   presentationStyle style: PresentationStyle)
```

[iOS] Mobile API SDK interaction

Mobile SDK interaction sequence diagram (mobile payment)

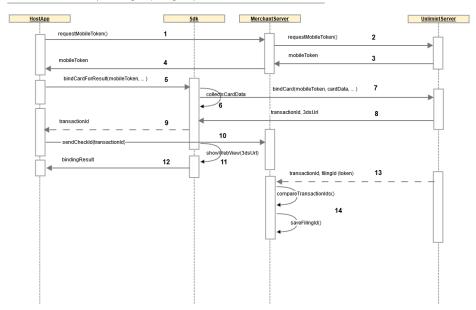


User scenario for mobile payment process:

ID	Requirement text			
1	Host (merchant) mobile application sends request for getting mobile token to merchant backend (requestMobileToken)			
2	Merchant backend sends POST request (JSON) with valid access token for getting mobile token to API v3 endpoint https://cardpay.com/api/mobile/token (Unlimint server):			
	Header of request: valid access_token of merchant.			
	Parameters of request:			
	request.id - request ID, should be unique for time period of 30 minutes			
	request.time - request attempt date and time up to milliseconds in ISO 8601 format (milliseconds is optional part)			
	(example of format - yyyy-MM-dd'T'HH:mm:ss.SSS'Z'			
3	API v3 returns response to merchant backend with requested mobile token:			
	- mobile_token (string, unique identifier, 128 symbols)			
	- expires (date and time of mobile token expiration in ISO 8601 format, example of format - yyyy-MM-dd'T'HH:mm:ss.SSS'Z')			
	Lifetime of mobile token is (see below):			
	'lifetime of mobile token' <= 5 min and < 'Access_token' ('Bearer' token) life time.			
	Granted LT of access token (for mobile token creation) should be less or equal 5 min but more or equeal than 4 min			
	4 min <= access token<= 5 min			
4	Merchant backend sends mobile token to the host application			
5	Host application calls paymentForResult(mobileToken) method of the mobile SDK			
6	Customer fills in card data in card data form (in SDK)			
7	Mobile SDK sends request with customer, card data, received mobile token (JSON) for making a payment to API v3 endpoint https://cardpay.com/api/mobile/* (here is presented masked endpoint)			
8	API v3 sends a payment response with redirect URL and transaction id (for 3DS verification) to the mobile SDK			
9	Mobile SDK returns transaction id to the host application, host application resend it to the merchant backend			

10	Host application sends transaction id to the merchant server
11	Mobile SDK presents webview with 3dsUrl to the customer for 3-D Secure verification
12	3-D Secure verification procedure passes and customer redirects to success or decline url (paymentResult)
13	Unlimint API v3 sends callback to the merchant backend (with transaction id and card token (if it was requested by customer)
14	Merchant backend compares received transaction id's from the host application and callback and saves a received card token for a future use (recommendations to do)





User scenario for card binding process:

ID	Requirement text			
1	Host (merchant) mobile application sends request for getting mobile token to merchant backend (requestMobileToken)			
2	Merchant backend sends POST request (JSON) with valid access token for getting mobile token to API v3 endpoint https://cardpay.com/api/mobile/token:			
	Header of request: valid access_token of merchant			
	Parameters of request:			
	request.id - request ID, should be unique for time period of 30 minutes			
	request.time - request attempt date and time up to milliseconds in ISO 8601 format (milliseconds is optional part)			
	(example of format - yyyy-MM-dd'T'HH:mm:ss.SSS'Z'			
3	API v3 returns response to merchant backend with requested mobile token:			
	- mobile_token (string, unique identifier, 128 symbols)			
	- expires (date and time of mobile token expiration in ISO 8601 format, example of format - yyyy-MM-dd'T'HH:mm:ss.SSS'Z')			
	Lifetime of mobile token is (see below):			
	'lifetime of mobile token' <= 5 min and < 'Access_token' ('Bearer' token) life time.			
	Granted LT of access token (for mobile token creation) should be less or equal 5 min but more or equeal than 4 min			
	4 min <= access token<= 5 min			
4	Merchant backend sends mobile token to the host application			
5	Host application calls bindCardForResult(mobileToken) method of the mobile SDK			

6	Customer fills in card data in card data form (in SDK)
7	Mobile SDK sends request with customer, card data, received mobile token (JSON) for card binding to API v3 endpoint https://cardpay.com/api/mobile/* (here is presented masked endpoint)
8	API v3 sends a card binding response with redirect URL and transaction id (for 3DS verification) to the mobile SDK
9	Mobile SDK returns transaction id to the host application, host application resend it to the merchant backend
10	Host application sends transaction id to the merchant server
11	Mobile SDK presents webview with 3dsUrl to the customer for 3-D Secure verification
12	3-D Secure verification procedure passes and customer redirects to success or decline url (bindingResult)
13	Unlimint API v3 sends callback to the merchant backend (with transaction id and filing id)
14	Merchant backend compares received transaction id's from the host application and callback and saves a received filing id for a future use (recommendations to do)

[iOS] Mobile SDK Customization

General

At the moment, the design system is implemented as a theme. You can use a standard theme or configure his own. Below is a table with the existing fields.

Theme:

Field	Component
navigationStyle	NavigationBarStyle
mainButtonStyle	MainButtonStyle
viewControllerStyle	ViewControllerStyle

Components

NavigationBarStyle

Field	Data Type			
bar	Bar			Style of UINavigationBar
	largeNavBar			
	small			
	smallTranslu	cent		
statusBarStyle	statusBarStyle UIStatusBarStyle default A dark status bar, intended for use on light backgrounds.		The style of the device's status bar.	
			ackgrounds.	
	lightContent	ontent A light status bar, intended for use on dark backgrounds.		
	darkContent	A dark status bar, intended for use on light b	ackgrounds.	
navigationBar Color				Theme of NavigationBar
	light			
	dark			
	transparentDa	ark		
	transparentLi	ght		
	custome (title	, barTint, backgroundImage, background)		
tintColor	RGB color			Tint color of UINavigationBar

MainButtonStyle

cornerRadius	Float	Rounding raview.
titleColor	RGB color	Color of butt
backgroundColor	Color	Button back color.
	normal RGB color	
	disabled RGB color	

ViewControllerStyle

backgroundColor	RGB color	The view's background color.