

Mobile SDK Specifications for iOS (Version 4.0.4)

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1. Prerequisite

Please provide the information below to verify merchant identity from MOLPay Server in order to use the payment channel:

- merchant ID
- verifykey
- appname
- username
- password

All the values above are in one word without whitespace.

The information should be request from MOLPay support team and the email address is **support@molpay.com**

2. System Requirements

- Ready for iOS 7 and above
- Minimum iOS version 6 and above. Older version support can be provided on request for custom make
- iOS based devices that support iOS version 4.3

3. Integrate MOLPay SDK

This section explains details on how to integrate MOLPay SDK. MOLPay SDK is a framework that will be added to the Xcode project.

The flow of integration:

- 1) Configure Xcode project (Adding the library & bundles).
- 2) Configure MOLPay SDK.
- 3) Merchant app pass buyer's information to the SDK
- 4) SDK will handle the payment process.
- 5) After payment is completed, SDK will return the result for transaction via delegate.

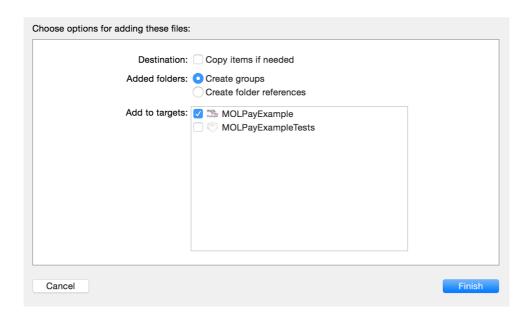


3.1.Configure Xcode Project

• Drag and Drop *MOLPayLibrary.framework* and *MOLPay.bundle* to your workspace.



• Uncheck the box "Copy items if needed" then press finish button on bottom right. This will reduce space in your App.





3.2. Configure MOLPay SDK

Import Library
 Import MOLPay SDK Library.

```
#import <MOLPayLibrary/MOLPayLib.h>
```

Setup delegate.
 Add delegate at header file

```
@interface ViewController () <MOLPayDelegate>
```

Prepare payment details

```
NSDictionary * paymentRequestDict =
@{
       mp_username: (Type: NSString),
       mp_password: (Type: NSString),
       mp_merchant_ID: (Type: NSString),
       mp_app_name :(Type: NSString),
       mp_verification_key: (Type: NSString),
       mp_order_ID:(Type: NSString),
       mp_amount :(Type: Float),
       mp_currency: (Type: NSString),
mp_channel: (Type: NSString),
       mp_country : (Type: NSString),
       mp_bill_name : (Type: NSString),
mp_bill_email : (Type: NSString),
mp_bill_mobile: (Type: NSString),
mp_bill_description: (Type: NSString),
       mp_is_escrow:
                                   (Type: B00L),
       mp_channel_editing: (Type: B00L),
       mp_editing_enabled: (Type: B00L),
mp_debug_mode: (Type: B00L),
       mp_debug_mode:
       mp_navigation_bar_tint_color: (Type: BOOL),
       mp_is_secure: (Type: BOOL),//Please refer chapter 6
       mp_url_scheme:(Type: NSString)
 };
```

Allocate class

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Load the SDK

[molpay loadMOLPaySDK];

Delegate return result

```
#pragma mark - MOLPayLib Delegate
- (void)paymentRequestSuccessWithPaymentDetails:(NSDictionary
*)paymentDetailsDict{
        NSLog(@"paymentDetailsDict:%@",paymentDetailsDict);
}
- (void)paymentRequestFailedWithErrorDescription:(NSDictionary
*)errorDescription{
        NSLog(@"errorDescription:%@",errorDescription);
}
```

Note

- Please refer chapter 5 for full list of channel.
- Debug mode should be disable before release the app. It might slow the app.
- Enable editing will let the user edit name, email, mobile number and description.
- URL Scheme is needed for MOLWallet channel. (For more info please refer to chapter 3.4.
- Example of success return result

```
{
  "txn_ID":"0123456",
  "paydate":1411370328,
  "amount":"100.00",
  "status_code":"22",
  "msgType":"C6"
}
```

- Example of failed return result

```
"error_desc":"User exit the payment page",
"status": "exit"
}
```



- Transaction status:

Status	Description
00	Success
11	Failed
22	Pending

- Field included in paymentDetailsDict:

Key	Value type
txn_ID	Numeric (Integer)
paydate	Numeric (Integer)
amount	Numeric (Float)
status_cod e	Numeric (Integer)
channel	String
err_desc	String
app_code	String
msgType	String



3.3. Request payment result

Request by transaction ID

Request by order ID:

Retrieve result via delegate



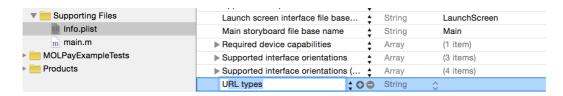
4. MOLWallet Integration

Merchant apps need to specify their own URL scheme and pass it in the paymentRequestDict (Please refer to chapter 3.3.1). URL Scheme will be use to handle callbacks in MOLWallet channel.

· Setup info.plist

Press the add button and type URL types, Xcode give suggestion. Press return/enter.

Xcode will auto generate the content.



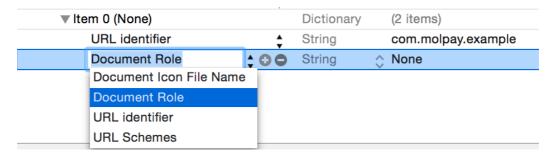
Set the URL identifier

In the value for URL identifier of your own. In this example, com.molpay.example.

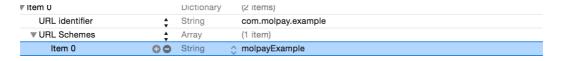


Adding URL scheme

Press the add button, and select URL Schemes.



Enter the URL Scheme of your own. In this example, *com.molpay.example*.





• Handling URL Scheme (App communication)

AppDelegate file (.m file)



5. Secure Mode

5.1. Introduction

Secure mode was introduced to improve security level of SDK. This mode is aiming to protect the merchant sensitive data such as verify key from hardcoding in merchant's application.

5.2. Implementation

In order to implement this new feature, please enable the following flag when you pass paymentRequestDict(see chapter 3.2 - Prepare payment details) to the SDK.

```
mp is secure: (Type: BOOL),
```

Merchant are encourage to generate the vcode & in their server and pass to the SDK through merchant app.

Below is the formula to generate the vcode:

```
MD5 ( AMOUNT + MERCHANT ID + ORDER ID + VERIFY KEY + MSG TYPE )
```

Example in PHP:

```
$vcode = md5( $POST['amount'] . $POST['merchant_id'] .
$POST['order_id'] . $verifyKey . $POST['msg_type']);
```

Passing vcode to SDK (see chapter 3.2 - Prepare payment details):

```
mp_verification_key: vcode(Type: NSString)
```

5.3. Request Payment Result in Secure Mode

In order to request payment result manually, please pass the vcode generated previously in chapter 5.2. Please refer to chapter 3.3 for more details.

```
mp_verification_key: vcode,//(Type: NSString)
```



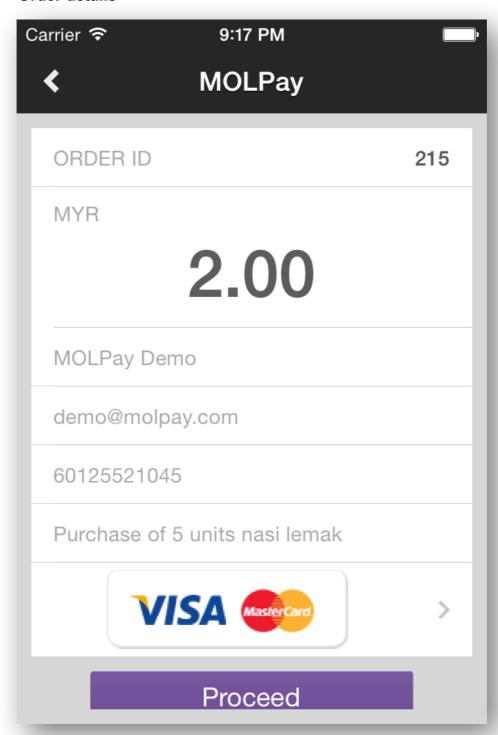
6. List of Channels Code and Supported Currency Code

No	Channel Code	Channel Name	Currency Code
1.	credit	Visa / Mastercard	MYR
2.	maybank2u	Maybank2u	MYR
3.	amb	AmOnline	MYR
4.	rhb	RHB Now	MYR
5.	webcash	WEBCASH	MYR
6.	paypal	PayPal	USD, AUD, GBP, CAD, CZK, DKK, EUR, HKD, HUF, ILS, JPY, MYR, MXN, NZD, NOK, PHP, PLN, SGD, SEK, CHF, TWD and THB
7.	alipay	Alipay	MYR, RM, USD, TWD and RMB
8.	hlb	Hong Leong Online	MYR
9.	cimb	CIMB Clicks	MYR
10.	fpx	MEPS FPX	MYR
11.	dragonpay	DragonPay	USD and PHP
12.	enetsD	eNets Debit	SGD
13.	polipayment	Poli Payment	AUD
14.	cash	7-Eleven Cash Retail	MYR
15.	singpost	SingPost	SGD
16.	MOLWallet	MOLWallet	MYR
17.	multi	List all channel	



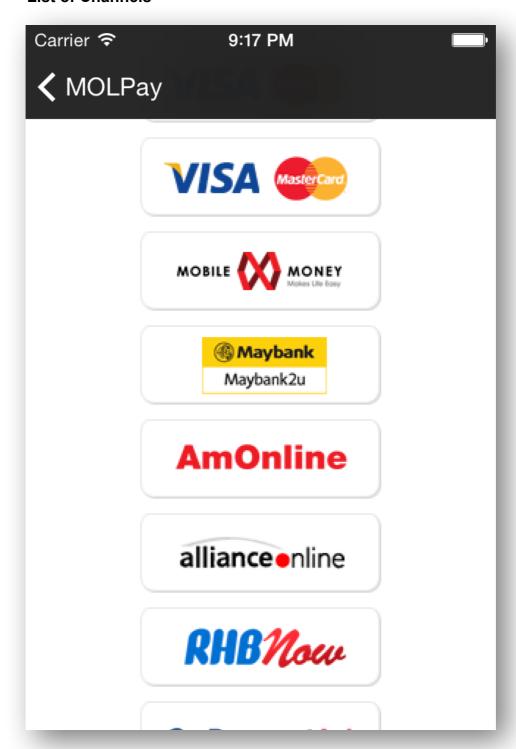
7. MOLPay SDK Screenshots

Order details



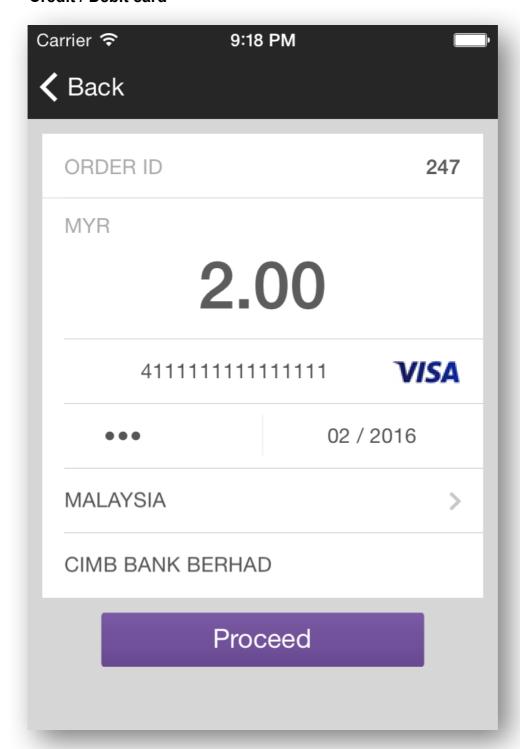


List of Channels





· Credit / Debit card





Payment Page

