



Buy Everywhere, Pay Anywhere

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:

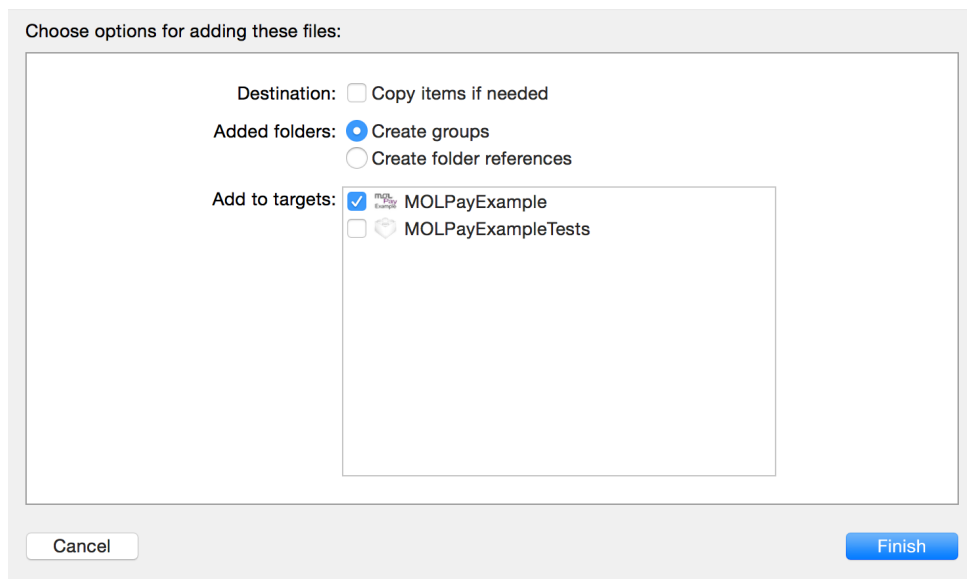
- 1) Configure Xcode project (Adding the library & bundles).
- 2) Configure MOLPay SDK.
- 3) Merchant app pass buyer's information to the SDK
- 4) SDK will handle the payment process.
- 5) After payment is completed, SDK will return the result for transaction via delegate.

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: BOOL),  
  
    mp_editing_enabled: (Type: BOOL),  
    mp_debug_mode: (Type: BOOL),  
    mp_navigation_bar_tint_color: (Type: BOOL),  
  
    mp_url_scheme: (Type: NSString)  
};
```

- **Allocate class**

```
MOLPayLib *molpay= [[MOLPayLib alloc] initWithTarget:self  
andPaymentDetails:paymentRequestDict];
```

- **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 disabled before releasing 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_code | Numeric (Integer) |
| channel | String |
| err_desc | String |
| app_code | String |
| msgType | String |

3.3.Request payment result

- Request by transaction ID

```
NSMutableDictionary * request = @{
    mp_transaction_id: (Type: NSString),
    mp_merchant_ID(Type: NSString),
    mp_amount(Type: NSString),
    mp_verification_key(Type: NSString)
};

MOLPayLib * molpay = [[MOLPayLib alloc] initWithTarget:self
andPaymentDetails:nil];

[molpay requestPaymentResult: request];
```

- Request by order ID:

```
NSMutableDictionary * request = @{
    mp_order_ID: (Type: NSString),
    mp_merchant_ID(Type: NSString),
    mp_amount(Type: NSString),
    mp_verification_key(Type: NSString)
};

MOLPayLib * molpay = [[MOLPayLib alloc] initWithTarget:self
andPaymentDetails:nil];

[molpay requestPaymentResult: request];
```

- Retrieve result via delegate

```
#pragma mark - MOLPayLib Request Payment Delegate
- (void)resultRequestSuccessWithPaymentDetails:
    (NSMutableDictionary *)paymentDetailsDict{
    NSLog(@"Success:%@", paymentDetailsDict);
}

- (void)resultRequestFailedWithErrorDescription:
    (NSMutableDictionary *)paymentDetailsDict{
    NSLog(@"Failed :%@", paymentDetailsDict);
}
```


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.

| | | | |
|--------------------|--|--------|--------------|
| Supporting Files | Launch screen interface file base... | String | LaunchScreen |
| Info.plist | Main storyboard file base name | String | Main |
| main.m | Required device capabilities | Array | (1 item) |
| MOLPayExampleTests | Supported interface orientations | Array | (3 items) |
| Products | Supported interface orientations (...) | Array | (4 items) |
| | URL types | String | |

• Set the URL identifier

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

| | | |
|--|------------|--------------------|
| Supported interface orientations (...) | Array | (4 items) |
| URL types | Array | (1 item) |
| Item 0 | Dictionary | (1 item) |
| URL identifier | String | com.molpay.example |

• Adding URL scheme

Press the add button, and select URL Schemes.

| | | |
|-------------------------|------------|--------------------|
| Item 0 (None) | Dictionary | (2 items) |
| URL identifier | String | com.molpay.example |
| Document Role | String | None |
| Document Icon File Name | | |
| Document Role | | |
| URL identifier | | |
| URL Schemes | | |

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

| | | |
|----------------|------------|--------------------|
| Item U | Dictionary | (2 items) |
| URL identifier | String | com.molpay.example |
| URL Schemes | Array | (1 item) |
| Item 0 | String | molpayExample |

- **Handling URL Scheme (App communication)**

AppDelegate file (.m file)

```
- (BOOL)application:(UIApplication *)application
    openURL:(NSURL *)url
    sourceApplication:(NSString *)sourceApplication
    annotation:(id)annotation{

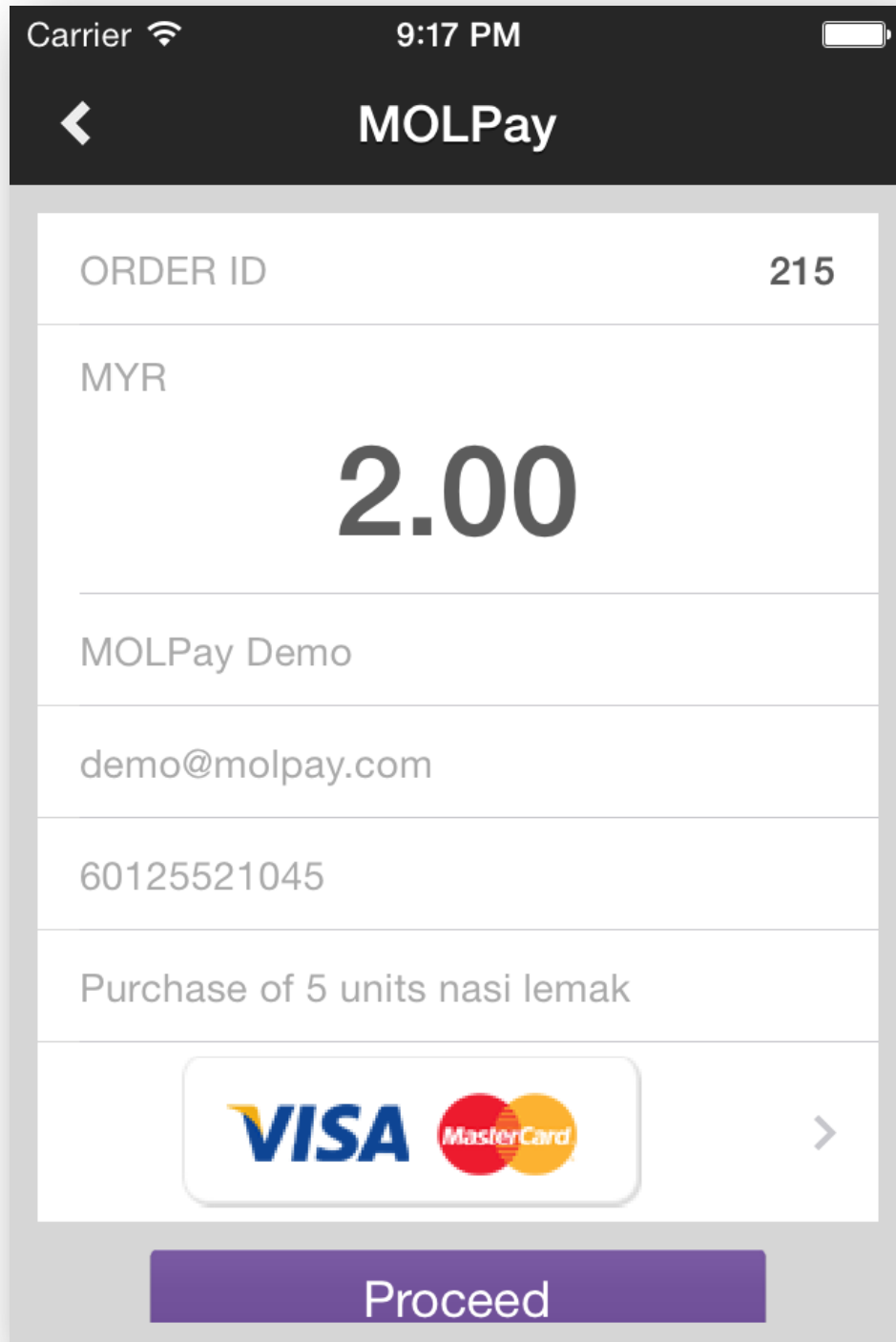
    return [MOLPayLib handleOpenURL:url
        sourceApplication:sourceApplication];
}
```

5. List of Channels Code and Supported Currency Code

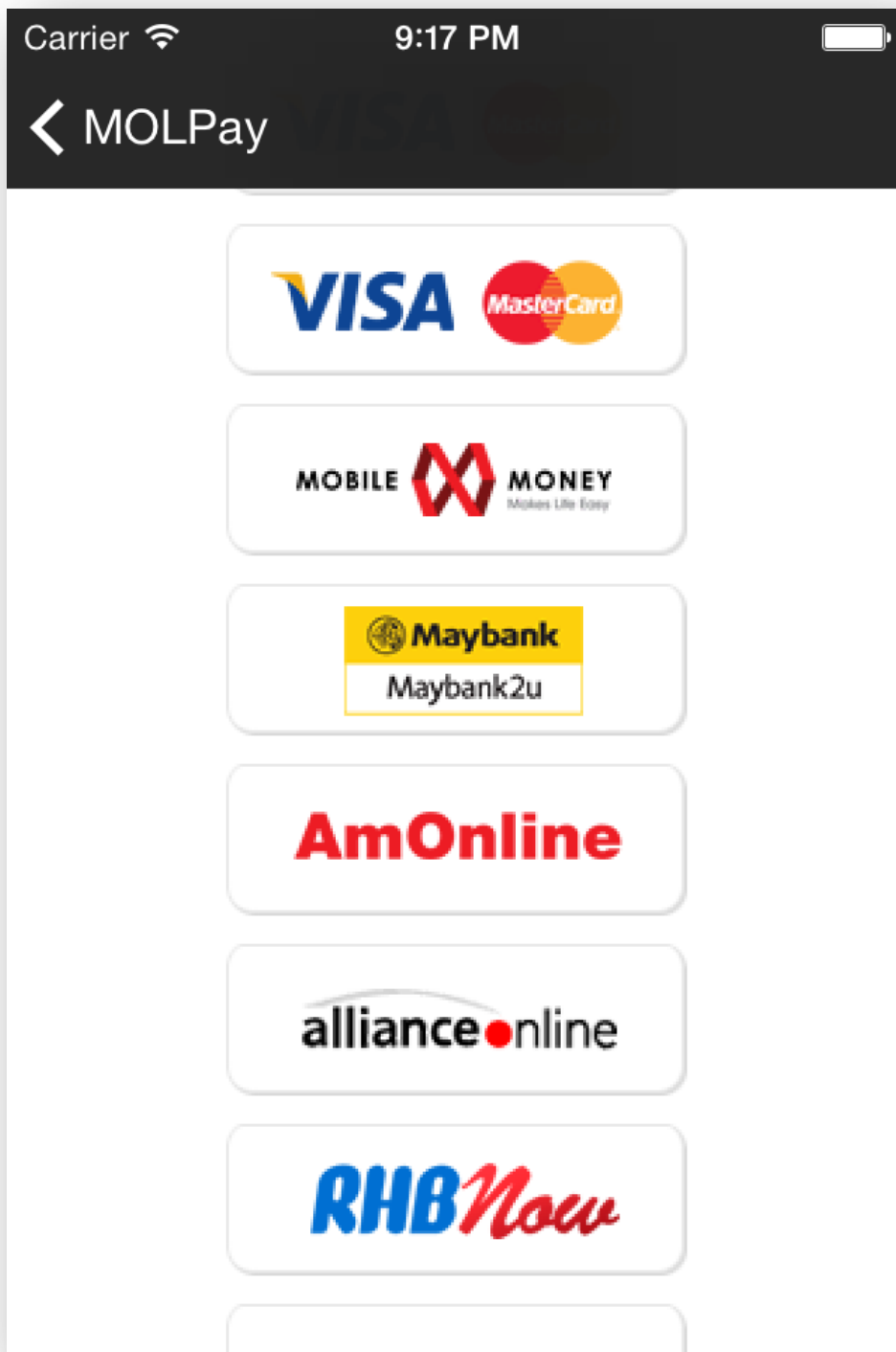
| No | Channel Code | Channel Name | Currency Code |
|-----|--------------|----------------------|---|
| 1. | credit | Visa / Mastercard | MYR |
| 2. | mobilemoney | Mobile Money | MYR |
| 3. | maybank2u | Maybank2u | MYR |
| 4. | amb | AmOnline | MYR |
| 5. | alb | Aliance Online | MYR |
| 6. | rhb | RHB Now | MYR |
| 7. | paymentasia | China Online Banking | MYR, RM, RMB and CNY |
| 8. | webcash | WEBCASH | MYR |
| 9. | 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 |
| 10. | alipay | Alipay | MYR, RM, USD, TWD and RMB |
| 11. | h1b | Hong Leong Online | MYR |
| 12. | cimb | CIMB Clicks | MYR |
| 13. | fpx | MEPS FPX | MYR |
| 14. | dragonpay | DragonPay | USD and PHP |
| 15. | enetsD | eNets Debit | SGD |
| 16. | polipayment | Poli Payment | MYR, RM and AUD |
| 17. | tenpay | Tenpay | MYR, RM and USD |
| 18. | cash | 7-Eleven Cash Retail | MYR |
| 19. | esapay | Esapay Cash Retail | MYR |
| 20. | singpost | SingPost | SGD |
| 22. | MOLWallet | MOLWallet | MYR |
| 21. | multi | List all channel | |

6. MOLPay SDK Screenshots



- Order details




- **List of Channels**



- **Credit / Debit card**


Carrier  9:18 PM 

 **Back**

ORDER ID247


MYR

2.00

41111111111111111111

...

02 / 2016

MALAYSIA

CIMB BANK BERHAD

Proceed

- **Payment Page**

Carrier 9:19 PM

Exit

Secure ePay Code has been sent to your registered mobile phone number. **5.** Please enter the Secure ePay Code to authenticate this payment.

| | |
|-------------------------------------|---------------------------------------|
| Merchant Name | : Netbder Netbuilder |
| Amount | : MYR 2.00 |
| Transaction Date | : Fri May 9 2014 21:19:03 GMT+0800 |
| CIMB Bank MasterCard No. | : xxxx xxxx xxx |
| SecureCode™ Secure ePay Code | : <input type="text"/> |

Submit **Cancel**

If you do not receive Secure ePay Code within the next few minutes, please click on "Resend Secure ePay Code" button for a new secure ePay Code.

Resend Secure ePay Code

This information is **not shared** with the Merchant.

Please contact our Customer Service Hotline at the back of your card for assistance.