

# **PayDollar PayGate**

**Integration Guide (eWallet Direct Connection)** 

**Version 1.5** 

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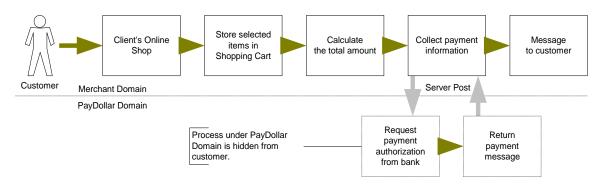
# **Revision History**

Revision	Date	Revision Description
1.0	Jul 08, 2020	First Draft
1.1	Jul 15, 2020	Added FPS
1.2	Aug 11, 2020	Added OCTOPUS
1.3	Aug 26, 2020	Updated Google Pay
1.31	Sept 07, 2020	Updated Google Pay Reference Resources
1.4	Jan 22, 2021	Added WeChat QR
1.5	Apr 06, 2022	Added WeChat MiniProgram
		Added FPS QR

# **Connection method**

#### **Server Side Direct Connection**

This connection method is for merchant to request payment authorization from bank directly through PayDollar PayGate system and subject to approval of acquiring bank. For example, merchant's IVR system or mobile application can directly integrate to us. And in this connection, merchants need to build their own payment information collection page to collect payment information, such as credit card number, expire data, holder's name and etc. Then, payment information has to be sent to a defined URL provided by the acquiring bank. Customer of the merchant, therefore, will not see any bank's payment page.



For merchant who chooses this method of connection, 128-bit SSL cert must be installed for data encryption. The system does not accept non-encrypted data.

PayDollar uses Extended Validation (EV) SSL Certificate. To ensure your system function properly, please check your certificate store can recognize VeriSign intermediate CA certificate - Secure Site Pro/Managed PKI for SSL Premium with EV Certificates. If not, you are required to install the VeriSign intermediate CA certificate in your certificate store.

Please download the primary and secondary VeriSign EV SSL Intermediate CA certificates from the following link then import the 2 certificates into the keystore of your environment.

http://www.verisign.com/support/verisign-intermediate-ca/extended-validation-pro/index.html (Please be reminded that you should choose the option "Issued After May 17th, 2009")

# **Definition of Parameters in the Integration Page**

The following are the parameters for integration. PayDollar PayGate is case sensitive. Make sure the typeface is correct. When a transaction is finish, the system will return customer a payment message on the page created by merchant.

Parameters	Data Type	Descriptions		
Required Parameter ( with UTF-8 Encoding ) for connect to our payment interface				
orderRef	Text (35)	Merchant's Order Reference Number		
amount	Number (12,2)	Total amount your want to charge the customer [ Up to 2 decimal place ]		
currCode	Text (3)	The currency of the payment:  "344" – HKD		
lang	Text (1)	The language of the payment page :  "E" – English		
merchantld	Number	The merchant ID we provide to you		
рауТуре	Text (1) ("N","H")	The payment type:  "N" – Normal Payment (Sales)  "H" – Hold Payment (Authorize only)  For merchants who use authorize mode, please be reminded to perform the CAPTURE action as soon as the transaction is confirmed as valid. Once captured, the customer's credit card will be debited in coming bank settlement processing. If the merchant does not capture/reverse the authorized transaction over 14 days, the credit limit will be released to the cardholder after a time period which is subjected to card issuing bank  Merchant may capture/reverse the authorized transaction in the merchant administration site > Operation > Transaction Detail.		
pMethod	Text	The payment method type  "ALIPAYAPP" – Alipay Global App  "ALIPAYCNAPP" – Alipay China App		

		"ALIPAYHKAPP" – Alipay HK App
		"WECHATAPP" – WeChat Pay App
		"WECHATONL" – WeChat Pay QR
		"WECHATMP" - WeChat Pay with MiniProgram
		"FPS" – FPS App 2 App or FPS QR
		"OCTOPUS" – Octopus App 2 App
	Opti	onal Parameter for billing information
billingFirstName	Text(60)	First name of customer
billingLastName	Text(60)	Last name of customer
billingStreet1	Text(40)	Address of customer
billingStreet2	Text(40)	Address of customer ,only mandatory if address exceed 40
billingCity	Text(50)	City
billingState	Text(2)	Mandatory if customer's country is USA or Canada
billingPostalCode	Text(10)	Mandatory if customer's country is USA or Canada
billingCountry	Text(2)	Eg.HK
billingEmail	Text(255)	Email address
custIPAddress	Text(15)	192.168.180.100
	Optional Pa	rameter for connect to our payment interface
remark	Text	An additional remark field that will appear in the confirmation email and
		transaction detail report to help you to refer the order
secureHash	Text (40)	transaction detail report to help you to refer the order  Secure hash is used to authenticate the integrity of the transaction information
secureHash	Text (40)	
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secureHash	Text (40)	Secure hash is used to authenticate the integrity of the transaction information and the identity of the merchant. It is calculated by hashing the combination of
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secureHash	Text (40)	Secure hash is used to authenticate the integrity of the transaction information and the identity of the merchant. It is calculated by hashing the combination of various transaction parameters and the Secure Hash Secret.
secureHash		Secure hash is used to authenticate the integrity of the transaction information and the identity of the merchant. It is calculated by hashing the combination of various transaction parameters and the Secure Hash Secret.  *Applies to merchants who registered this function only. For more information,
secureHash eWalletService		Secure hash is used to authenticate the integrity of the transaction information and the identity of the merchant. It is calculated by hashing the combination of various transaction parameters and the Secure Hash Secret.  *Applies to merchants who registered this function only. For more information, please refer to section 4 at normal PayDollar PayGate Integration Guide.
	Optic	Secure hash is used to authenticate the integrity of the transaction information and the identity of the merchant. It is calculated by hashing the combination of various transaction parameters and the Secure Hash Secret.  *Applies to merchants who registered this function only. For more information, please refer to section 4 at normal PayDollar PayGate Integration Guide.  onal Parameter for using device wallet  eWallet service indicator  "T" for device wallet payment
eWalletService	Option Text ("T","F")	Secure hash is used to authenticate the integrity of the transaction information and the identity of the merchant. It is calculated by hashing the combination of various transaction parameters and the Secure Hash Secret.  *Applies to merchants who registered this function only. For more information, please refer to section 4 at normal PayDollar PayGate Integration Guide.  *Description of the payment of the transaction information of various transaction parameters and the Secure Hash Secret.  *Applies to merchants who registered this function only. For more information, please refer to section 4 at normal PayDollar PayGate Integration Guide.  **Description of the payment of
	Optio Text	Secure hash is used to authenticate the integrity of the transaction information and the identity of the merchant. It is calculated by hashing the combination of various transaction parameters and the Secure Hash Secret.  *Applies to merchants who registered this function only. For more information, please refer to section 4 at normal PayDollar PayGate Integration Guide.  *Onal Parameter for using device wallet  eWallet service indicator  "T" for device wallet payment  "E" for other payment  The value of the device wallet type:
eWalletService	Option Text ("T","F")	Secure hash is used to authenticate the integrity of the transaction information and the identity of the merchant. It is calculated by hashing the combination of various transaction parameters and the Secure Hash Secret.  *Applies to merchants who registered this function only. For more information, please refer to section 4 at normal PayDollar PayGate Integration Guide.  *Denal Parameter for using device wallet  eWallet service indicator  "T" for device wallet payment  "F" for other payment  The value of the device wallet type:  "SAMSUNG" – Samsung Pay  "APPLEPAY" – Apple Pay
eWalletService eWalletBrand	Optic Text ("T","F") Text (10)	Secure hash is used to authenticate the integrity of the transaction information and the identity of the merchant. It is calculated by hashing the combination of various transaction parameters and the Secure Hash Secret.  *Applies to merchants who registered this function only. For more information, please refer to section 4 at normal PayDollar PayGate Integration Guide.  *Denal Parameter for using device wallet*  eWallet service indicator  "T" for device wallet payment  "F" for other payment  The value of the device wallet type:  "SAMSUNG" – Samsung Pay  "APPLEPAY" – Apple Pay  "GOOGLE" – Google Pay™
eWalletService	Optic Text ("T","F") Text (10)	Secure hash is used to authenticate the integrity of the transaction information and the identity of the merchant. It is calculated by hashing the combination of various transaction parameters and the Secure Hash Secret.  *Applies to merchants who registered this function only. For more information, please refer to section 4 at normal PayDollar PayGate Integration Guide.  *Onal Parameter for using device wallet  eWallet service indicator  "T" for device wallet payment  "F" for other payment  The value of the device wallet type:  "SAMSUNG" – Samsung Pay  "APPLEPAY" – Apple Pay  "GOOGLE" – Google Pay™  Retrieved device wallet payment data from related SDK with Base64 Format
eWalletService eWalletBrand	Optic Text ("T","F") Text (10)	Secure hash is used to authenticate the integrity of the transaction information and the identity of the merchant. It is calculated by hashing the combination of various transaction parameters and the Secure Hash Secret.  *Applies to merchants who registered this function only. For more information, please refer to section 4 at normal PayDollar PayGate Integration Guide.  *Denal Parameter for using device wallet  eWallet service indicator  "T" for device wallet payment  "F" for other payment  The value of the device wallet type:  "SAMSUNG" – Samsung Pay  "APPLEPAY" – Apple Pay  "GOOGLE" – Google Pay™

Return Parameter				
src	Number	Return bank host status code		
prc	Number	Return bank host status code		
Ord	Number	Bank Reference Number		
Holder	Text	The Holder Name of the Payment Account		
successcode	Number	Transaction Status:		
		0 – Transaction succeeded		
		1 – Transaction Failure		
		2 – Transaction Pending (for App–2–App integration)		
Ref	Text	Merchant's Order Reference Number		
PayRef	Number	PayDollar Payment Reference Number		
Amt	Number (12,2)	Transaction Amount		
Cur	Number (3)	Transaction Currency i.e. "344" - HKD		
AuthId	Text	Approval Code		
TxTime	Text	Transaction Time		
	(YYYY-MM-DD			
	HH:MI:SS.0)			
errMsg	Text	Return Message or Data from payment method		

All the return parameters will be concatenated as in html request format by separate with &. Sample return string:

successcode=0&Ref=Test&PayRef=4780&Amt=1.0&Cur=344&prc=0&src=0&Ord=6697090&Holder=edward&AuthId=123456&TxTime=2003-10-07 17:48:02.0&errMsg=Transaction completed

## **Kick Off**

After the integration has been completed, it is ready to launch your e-commerce web to serve your customers. Please copy the following **TESTING URL** for Direct Connect Server Post method:

https://test.paydollar.com/b2cDemo/eng/directPay/payComp.jsp

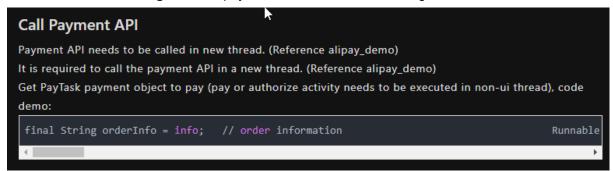
Please copy the following **PRODUCTION URL** for Direct Connect Server Post method:

https://www.paydollar.com/b2c2/eng/directPay/payComp.jsp

# **SDK Integration Step**

# Alipay Global App Alipay China App Alipay HK App

- 1. Send the related order information to PayDollar Server Side Direct Connection.
- 2. PayDollar will return related transaction information at parameter "errMsg".
- 3. Set the content at "errMsg" to the Alipay SDK "order information" string.



- 4. Initialize Alipay SDK and handle the response.
- 5. PayDollar will send the data feed to merchant server for the final transaction result.

#### Related SDK document:

Alipay Global: <a href="https://global.alipay.com/docs/ac/app/sdk\_integration">https://global.alipay.com/docs/ac/app/sdk\_integration</a>
Alipay HK: <a href="https://global.alipay.com/docs/ac/app\_hk/sdkintegration">https://global.alipay.com/docs/ac/app\_hk/sdkintegration</a>

Alipay China: <a href="https://opendocs.alipay.com/open/204/105296">https://opendocs.alipay.com/open/204/105296</a>

# **WeChat Pay App**

- 1. Send the related order information to PayDollar Server Side Direct Connection.
- PayDollar will return related transaction information at parameter "errMsg". successful "errMsg" format:
  - appld|nonceStr|package|partnerld|prepayld|timeStamp|sign|end
- 3. Split the "errMsg" with using "|" and put the data to WeChat SDK with the corresponding variable.

#### 3)Call Payment

The Merchant's server calls the Unified Order API (for more information, see Section 9.1 Unified Order) to create an advance transaction. After obtaining prepay\_id and signing relevant parameters, the advance transaction data is transferred to the App to start a payment. See below for an example on how to do this:

```
PayReq *request = [[[PayReq alloc] init] autorelease];
request.partnerId = @"10000100";
request.prepayId = @"1101000000140415649af9fc314aa427";
request.package = @"Sign=WXPay";
request.nonceStr= @"a462b76e7436e98e0ed6e13c64b4fd1c";
request.timeStamp= @"1397527777";
request.sign= @"582282d72dd2b03ad892830965f428cb16e7a256";
[WXApi safeSendReq:request];
```

- 4. Submit the SDK request.
- 5. PayDollar will send the data feed to merchant server for the final transaction result.

## Related SDK document:

https://pay.weixin.qq.com/wiki/doc/api/wxpay/pay/In-AppPay/chapter6\_2.shtml

# **WeChat Pay QR**

- Send the related order information to PayDollar Server Side Direct Connection with using parameter pMethod with value "WECHATONL"
- 2. PayDollar will return the WeChat Pay QR payment token at parameter "errMsg" with base64 format.
- 3. Merchant decode the "errMsg" with base64 and convert the payment token to QR image.
- 4. Merchant display the QR and allow client to send to complete the payment.
- 5. Merchant can listen the payment result with using Order API Query function or wait the datafeed response at the merchant backend server
- 6. After payment complete, PayDollar will send the data feed to merchant server for the final transaction result.

#### Related SDK document:

https://pay.weixin.qq.com/wiki/doc/api/wxpay/en/pay/NativePay/chapter4\_1.shtml

# **WeChat Pay with MiniProgram**

- Send the related order information to PayDollar Server Side Direct Connection with using parameter pMethod with value "WECHATMP" and oAuth with the value of WeChat MiniProgram Client Open ID retrieved from Merchant MiniProgram App
- 2. PayDollar return the WeChat Pay MiniProgram payment required value at parameter "errMsg" and pack the value with "|" and end with word "end"

Format:

{appid}|{noncestr}|{package}|{partnerId}|{prepayid}|{timestamp}|{sign}|end Example:

wxf0a8469573f4f917|1513064644|prepay\_id=wx2017033010242291fcfe0db70013231072|13 80530002|wx2017033010242291fcfe0db70013231072|1560841986|7725BD8CAC7838EEE7 AACBE3CCA311F2|end

WeChat sign type: MD5

- Merchant decode the "errMsg" and set the WeChat Pay parameters to MiniProgram function "wx.requestPayment"
- WeChat response the result to the MiniProgram and send backend response to PayDollar server.
- 5. After payment complete, PayDollar will send the data feed to merchant server for the final transaction result.

#### WeChat Mini Program Sample Call:

```
wx.requestPayment(
{
    'timeStamp': '1560841986',
    'nonceStr': '1513064644',
    'package': 'prepay_id=wx2017033010242291fcfe0db70013231072',
    'signType': 'MD5',
    'paySign': '7725BD8CAC7838EEE7AACBE3CCA311F2',
    'success':function(res){},
    'fail':function(res){},
    'complete':function(res){}
})
```

#### Related SDK document:

https://pay.weixin.qq.com/wiki/doc/api/wxa/wxa\_sl\_api.php?chapter=7\_10&index=1

# Google Pay™

By using PayDollar Google Pay™ service, please use the below configuration at the Google Pay™ SDK configuration.

- o "gateway": "asiapay"
- o "gatewayMerchantId": "PayDollar Merchant Id"

For the below configuration, please contact the PayDollar support team about it. It is related to the acquirer bank and your account supported.

#### Android:

- getAllowedCardNetworks
- getAllowedCardAuthMethods

#### Web:

- o allowedAuthMethods
- allowedCardNetworks

For the detail, please reference to the following URL:

https://developers.google.com/pay/api/android/reference/request-objects#PaymentMethod

## Step:

- Follow the Google Pay™ SDK integration guide with using PayDollar provided configuration values
- 2. Implement Google Pay™ and prepare the payment token
  - a. Android:

At the Google Pay™ SDK function handlePaymentSuccess

```
/**
    * PaymentData response object contains the payment information, as well as any additional
    * requested information, such as billing and shipping address.
    *
    * @param paymentData A response object returned by Google after a payer approves payment.
    * @see <a href="https://developers.google.com/pay/api/android/reference/">
    * object#PaymentData">PaymentData</a>
    */
    private void handlePaymentSuccess(PaymentData paymentData) {

        // Token will be null if PaymentDataRequest was not constructed using fromJson(String).
        final String paymentInfo = paymentData.toJson();
        if (paymentInfo == null) {
            return;
        }
}
```

## Encode the paymentInfo with Base64 format

```
byte[] byteString=paymentInfo.getBytes("UTF-8");
String base64encodedString= android.util.Base64.encodeToString(byteString, Base64.NO_WRAP);
```

b. Web:

Follow the Google Pay™ JavaScript integration guide and retrieve the paymentToken at **processPayment** function.

```
/**
  * Process payment data returned by the Google Pay API
  *
  * @param {object} paymentData response from Google Pay API after user approves payment
  * @see {@link https://developers.google.com/pay/api/web/reference/response-objects#PaymentData|Pay
  */
function processPayment(paymentData) {
    // show returned data in developer console for debugging
    console.log(paymentData);
    // @todo pass payment token to your gateway to process payment
    paymentToken = paymentData.paymentMethodData.tokenizationData.token;
}</script>
<script async
    src="https://pay.google.com/gp/p/js/pay.js"
    onload="onGooglePayLoaded()"></script>
```

Send the paymentToken to the merchant server and encode it with Base64 format

 $byte[]\ byteString=paymentToken.getBytes("UTF-8");$ 

String base64encodedString= java.util.Base64.getEncoder().encodeToString(byteString);

3. Submit the payment request to PayDollar Server Side Direct Connection with the following parameter:

eWalletPaymentData: Encoded Base64 payment token String

eWalletService: T

eWalletBrand: GOOGLE

4. PayDollar will send the data feed to merchant server for the final transaction result.

Please read and accept the following policy for Google Pay™:

Google Pay™ API Acceptable Use Policy:

https://payments.developers.google.com/terms/aup

Google Pay™ API Terms of Service:

https://payments.developers.google.com/terms/sellertos

#### Related SDK document:

Android: <a href="https://developers.google.com/pay/api/android/overview">https://developers.google.com/pay/api/android/overview</a>

Web: https://developers.google.com/pay/api/web/overview

# **Apple Pay**

- 1. Follow the Apple account configuration step to create Apple merchant ID and upload the acquiring bank certificate to the account.
- 2. Follow the Apple Pay SDK integration step and get the Apple Pay token data (**PKPayment**)

The actions on your server vary depending on whether you process your own payments or work with a payment platform. In both cases, your server handles the order and sends a status back to the device, which your delegate passes to its completion handler, as described in Processing Payments.

```
- (void) paymentAuthorizationViewController:(PKPaymentAuthorizationViewController
        *)controller
 2
                              didAuthorizePayment:(PKPayment *)payment
 3
                                       completion:(void (^)
        (PKPaymentAuthorizationStatus))completion
 4
          NSError *error;
 6
         ABMultiValueRef addressMultiValue = ABRecordCopyValue(payment.billingAddress,
        kABPersonAddressProperty);
 7
         NSDictionary *addressDictionary = (__bridge_transfer NSDictionary *)
        ABMultiValueCopyValueAtIndex(addressMultiValue, 0);
         NSData *json = [NSJSONSerialization dataWithJSONObject:addressDictionary
 8
        options: NSJSONWritingPrettyPrinted error: &error];
10
         // ... Send payment token, shipping and billing address, and order information to your
        server ...
11
12
          PKPaymentAuthorizationStatus status; // From your server
13
          completion(status);
14
     }
```

3. Convert the PKPayment object to JSON format and encode it with **Base64** format Example JSON for PKPayment:

4. Submit the payment request to PayDollar Server Side Direct Connection with the following parameter:

eWalletPaymentData: Encoded Base64 PKPayment

eWalletService: T

eWalletBrand: APPLEPAY

5. PayDollar will send the data feed to merchant server for the final transaction result.

#### Related SDK document:

https://developer.apple.com/documentation/passkit/

https://developer.apple.com/library/archive/ApplePay\_Guide/index.html#//apple\_ref/doc/uid/TP40014764-CH1-SW1

#### **FPS QR**

- Send the related order information to PayDollar Server Side Direct Connection with using parameter pMethod with value "FPS"
- 2. PayDollar will return the FPS QR payment token at parameter "errMsg" with base64 format.
- 3. Merchant decode the "errMsg" with base64 and convert the payment token to QR image.
- 4. Merchant display the QR and allow client to send to complete the payment.
- 5. Merchant can listen the payment result with using Order API Query function or wait the datafeed response at the merchant backend server
- 6. After payment complete, PayDollar will send the data feed to merchant server for the final transaction result.

# FPS App 2 App

- 1. Merchant APP request FPS transaction and send request to Merchant Server
- 2. Merchant Server send the related order information to PayDollar Server Side Direct Connection.
- 3. PayDollar will return the FPS payment token at parameter "errMsg" with base64 format.
- 4. Merchant Generate an URL to allow the payment Application to retrieve the token. Merchant Server can decode base64 and store the FPS payment token or use API to retrieve the token from PayDollar.
  - a. URL must be in HTTPS and with sub-domain "fps.", for example: https://fps.xxxxxx.xxx
  - b. Sub-domain must be applied HKPost e-Cert and main domain name must be matched
  - c. Merchant name at HKPost e-Cert must be **TOTALLY** matched with the Merchant FPS account name
  - d. HKPost e-Cert must not be expired

#### Example:

URL: https://fps.merchant.com/order/123456

Response:

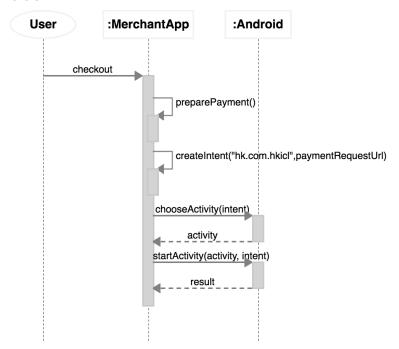
000201010212304701156490328544319410210111031831303101110318313520470115303 76454032.05802TH5908SCB

Test6007BANGKOK6277011011103183130315518176489697698052320200714032241394 0000000713OON111031831363048814

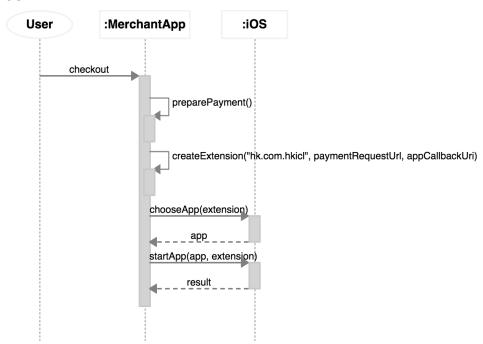
- 5. Merchant Server return the URL to the Merchant APP and call payment request to the "hk.com.hkicl" with the above URL.
- 6. Supported Bank / Payment APP will be triggered and Client complete the payment.
- 7. PayDollar will send the data feed to merchant server for the final transaction result.

# Merchant App Flow:

# Android:



# iOS:



# **Octopus**

- 1. Send the related order information to PayDollar Server Side Direct Connection.
- 2. PayDollar will return related transaction URI with Base64 format at parameter "errMsg".

```
successful "errMsg" format:
```

```
Base64(octopus payment URI)

Example:

data = octopus://payment?token=ysadsxs

errMsg = b2N0b3B1czovL3BheW1lbnQ/dG9rZW49eXNhZHN4cw==
```

- 3. Decode the errMsg with Base64 to retrieve the Octopus payment URI.
- 4. Pass the Octopus payment URI to the application to trigger the payment.
- 5. PayDollar will send the data feed to merchant server for the final transaction result.

#### Sample Code:

Android:

```
public final static int OCTOPUS_APP_REQUEST_CODE = 10000; // This CODE is subject to
change by SI
List<PackageInfo> packs = getPackageManager().getInstalledPackages(0);
boolean hasOctopusApp = false;
for (int i = 0; i < packs.size(); i++) {</pre>
    PackageInfo p = packs.get(i);
    if (p.packageName.contains("com.octopuscards.nfc_reader")) {
         hasOctopusApp = true;
    }
}
if (hasOctopusApp) {
    // Make payment request to OOS
    // .....
    // method to get the URI in response data.
    String octopusuri = getOctopusURI(....)
    // if installed package is OctopusApp
    Intent intent = new Intent(Intent.ACTION_VIEW, Uri .parse(octopusuri));
    startActivityForResult(intent, OCTOPUS APP REQUEST CODE);
} else {
    // don't have any octopus <a href="mailto:app">app</a>. prompt to Google Play for download
}
```

```
@Override
protected void onActivityResult(int requestCode, int resultCode, Intent data) {
    super.onActivityResult(requestCode, resultCode, data);

    if (requestCode == OCTOPUS_APP_REQUEST_CODE && resultCode == Activity.RESULT_OK)

{
        // Octopus returns here.
        // Merchant APP should get latest payment status from Payment gateway
    }
}
```

#### iOS:

```
// decode octopus payment token from the PayDollar response
let decodedData = Data(base64Encoded: str, options: .ignoreUnknownCharacters)
// sample decoded value : octopus://payment?token=1234567
let octopusPaymentUrl = String(data: decodedData!, encoding: .utf8)!
// build the return deeplink
let appName = Bundle.main.object(forInfoDictionaryKey: "CFBundleName") as! String
let appReturnUrl = appName + "://octopus/return"
// build the octopus payment url
let cURL = URL(string: octopusPaymentUrl! + "&return=" + appReturnUrl)!
// check octopus app installed or not
var canOpen : Bool = UIApplication.shared.canOpenURL(cURL)
if canOpen == true {
    UIApplication.shared.open(cURL, options: [:]) { (res) in
        print("Octopus app open response: \((res)\)")
    }
} else {
    // display app not installed or redirect client to App Store
}
```