



PayTabs Android SDK Integration Guide

INTEGRATION GUIDE
VERSION 3.0

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Revision History

Rev	Description of Change	Date
1.0	- New Document	28/10/2014
1.1	- Added secret key	09/12/2014
1.2	- Returning payment result to the caller application	23/02/2015
1.3	- Document Formatting - Updated Credit Card Expiry Dates - Updated paytabs.co to paytabs.com	23/06/2015
1.4	- Supporting payment operation time-out	12/10/2015
1.5	- SDK supporting API V2	21/01/2016
1.6	- Support Arabic Language - Add application Screenshots	03/02/2016
2.0	- SDK supports Android Studio - Add Verify Transaction API - Add IPN Configuration - Updated Sample Credit Cards CVV	15/03/2016
2.1	- Added and additional step for Importing SDK	27/03/2016
2.2	- Updated IPN responses and added sample IPN responses for each case	11/04/2017
2.3	- Added Tokenization feature - Added FAQs related to Android SDK	29/06/2017
2.4	- Added new screenshot of Android studio	18/06/2017
2.5	- Remove screenshots and details related to Scan To Pay	28/08/17
2.6	- Added New Refund API response for successful refund processed - Added New IPN response for rejected refund request	04/06/2018
2.7	- Modified code and bugs removed	19/07/2018
3.0	- New UI/UX of SDK and updated validation rules - Added theme customization - Removal of unnecessary parameters - Alignment with the updated system - Fixations and improvements in the flow - Removed in app tokenized payment	16/10/2018

1 Overview

At PayTabs, we are committed to providing the most secure, reliable and user-friendly payment processing solutions. By partnering with us for your payment processing needs, you can be confident that payment transactions will be processed quickly and efficiently, and your customers' information will be safe.

You'll enjoy our easy set-up using our Android SDK and easy integration with your Android applications you develop. Our two-level fraud protection system protects transaction data throughout the payment process. With PayTabs as your payment processor, you'll benefit from the fastest, most secure, and cost-effective payment processing in the industry.

It's important to note that the PayTabs APIs and SDKs are constantly evolving, and updates are usually done every quarter, if required. PayTabs will intimate any major change, so it's important that you check your merchant dashboard notification or e-mail, frequently to be updated.

1.1 Test Merchant Account v/s Live Merchant Account

PayTabs does not offer an explicit Sandbox / Testing environment. But using a demo account, you can freely test all the functionalities and integrate our API and Plugin without any hassle. In order to move to LIVE PRODUCTION environment, you will need to activate your LIVE MERCHANT ACCOUNT by clicking on [GO LIVE](#) through your PayTabs Merchant Account. PayTabs requires some personal information, documents and other details related to your business to validate your business. Once your Merchant Account is activated, you will have been moved to the LIVE PRODUCTION environment.

1.2 Target Audience

This document is intended for developers who want to write Android applications that interact with PayTabs.com.

1.3 Assistance

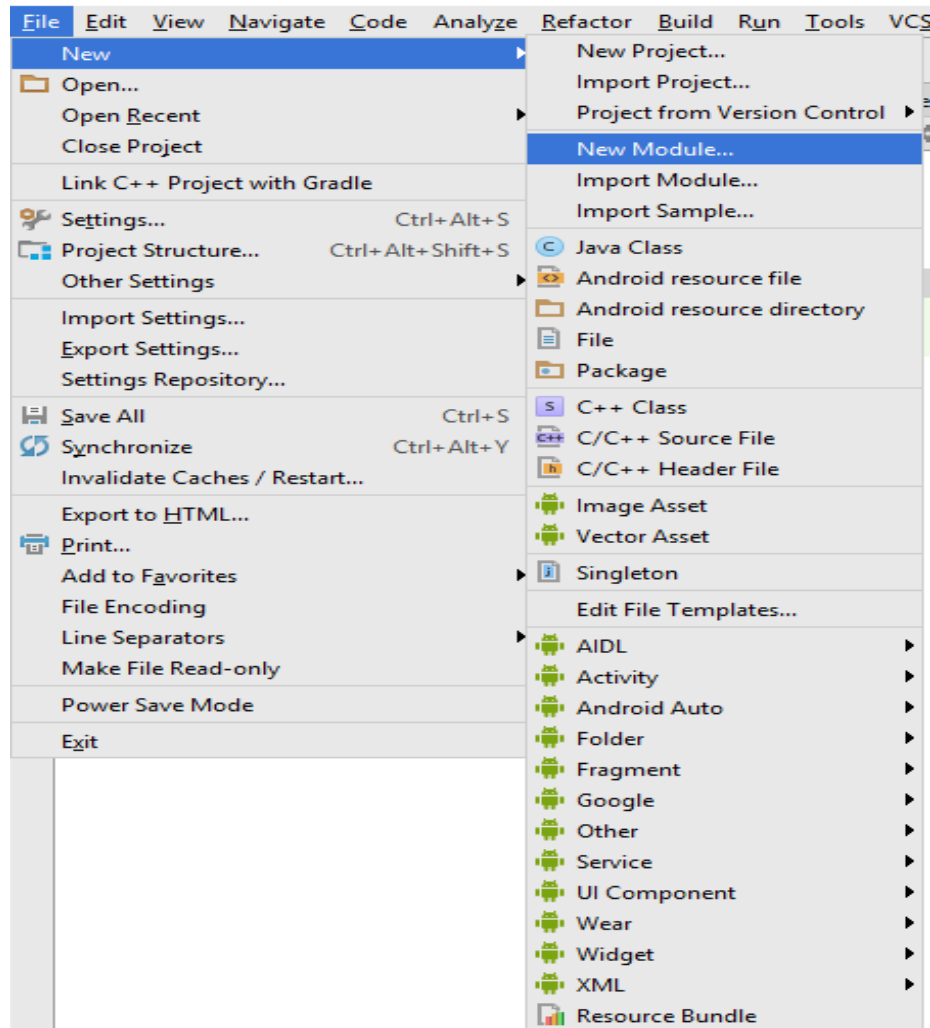
If you require assistance, please check out our [Frequently Asked Questions](#) or chat live with our support staff or email us at support@paytabs.com.

1.4 Documentation Feedback

Help us improve the PayTabs Android SDK Integration Guide, by sending your feedback to support@paytabs.com.

2 Importing the SDK Android Project

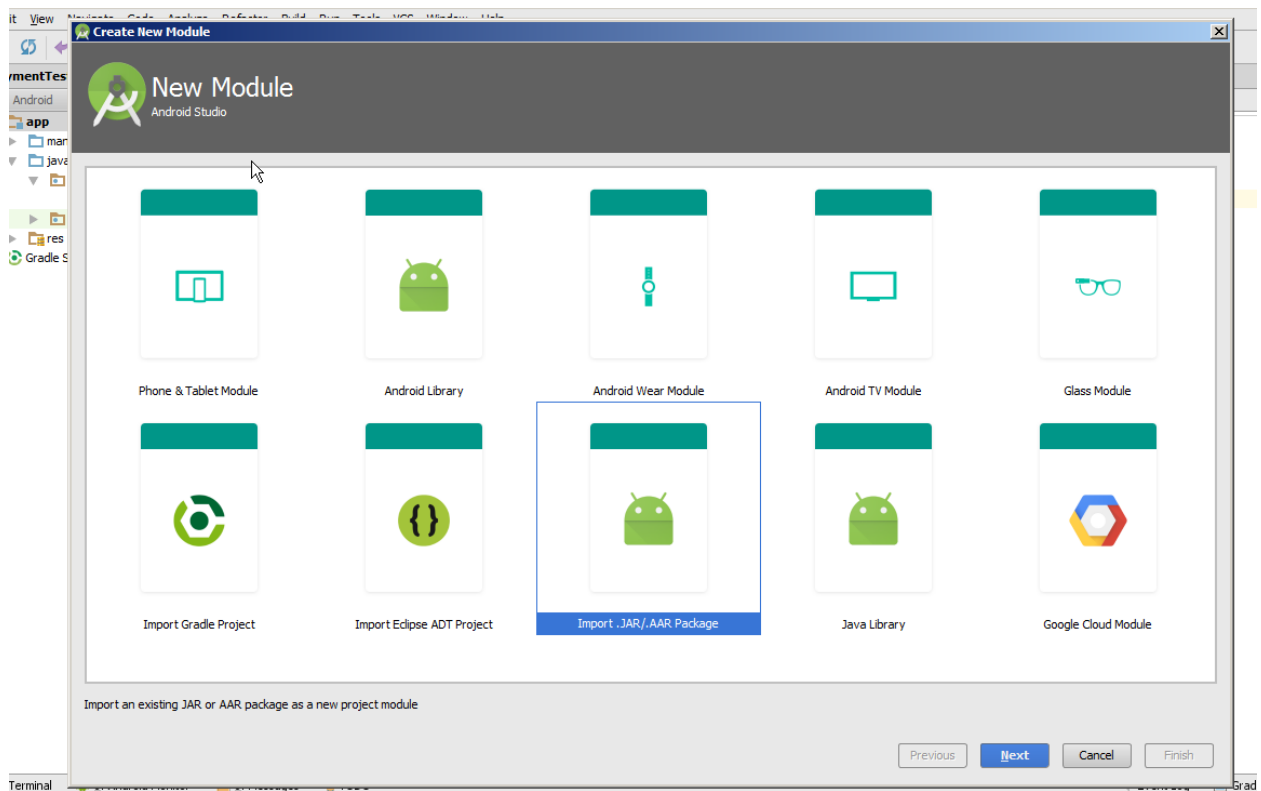
1. Extract the PayTabs Android SDK.zip file
2. In Android Studio, Right click on the app choose **New -> Module**



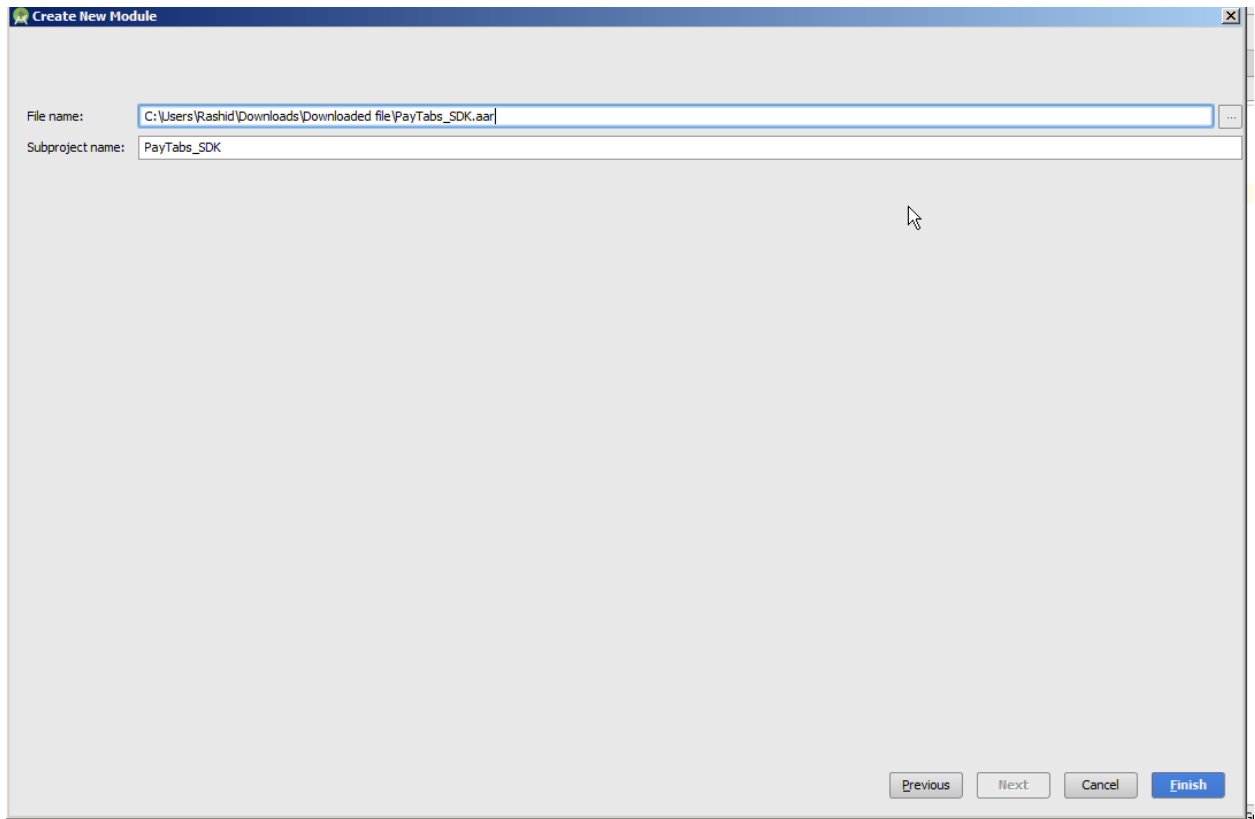
3. Select **.AAR** package as shown in the screenshot below. (Tested with Android Studio 3.1.3)

If you are using the older version of Android studio, make sure to update the Gradle.

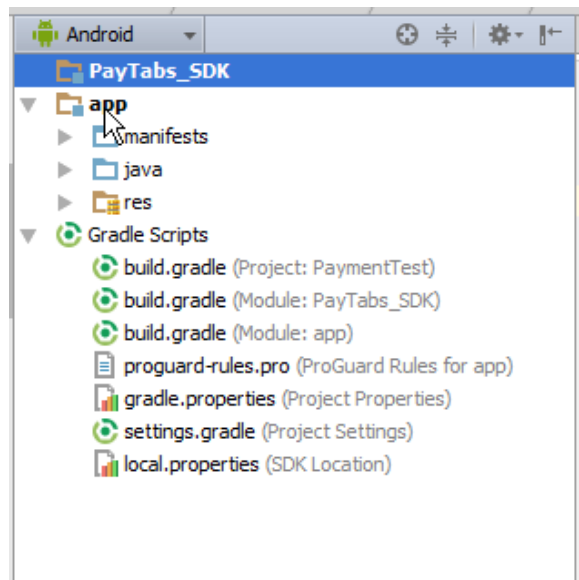
<http://stackoverflow.com/a/29832424> may help you



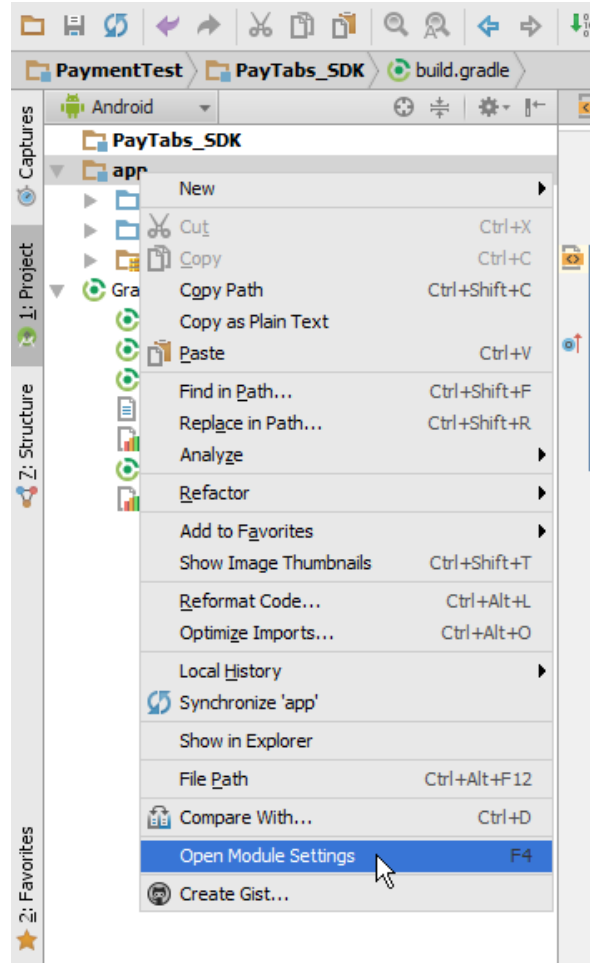
4. Choose the Downloaded **PayTabs_SDK.aar** file



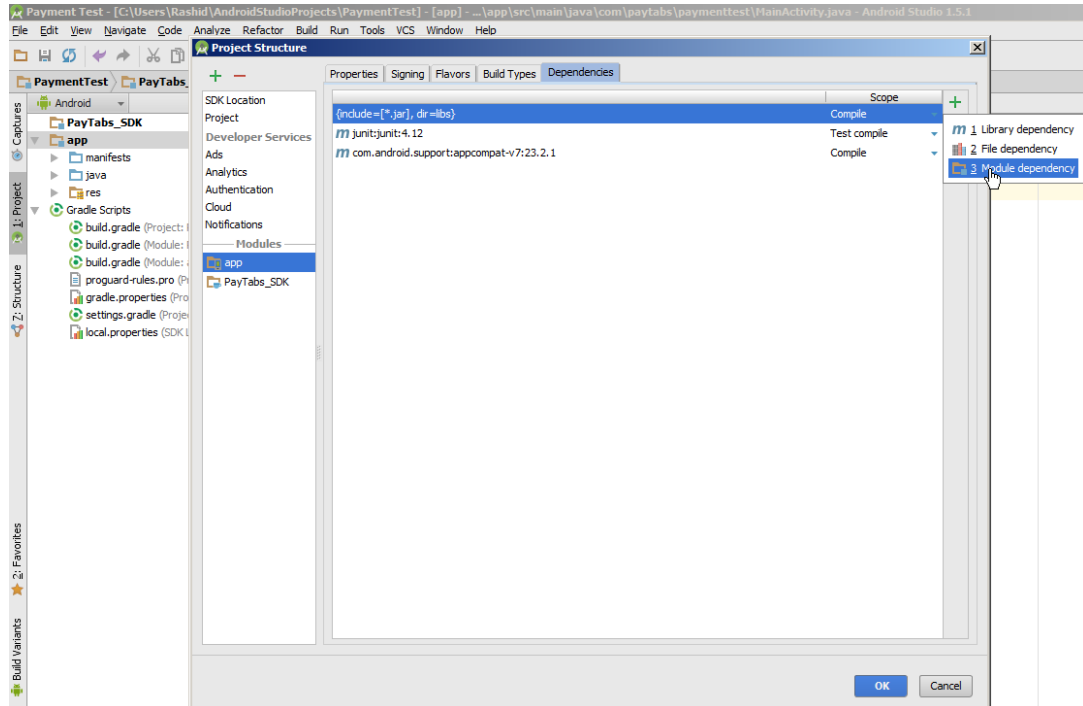
5. In **Android Project** view it looks like this



6. Right click on your **App** and choose **Open Module Settings**

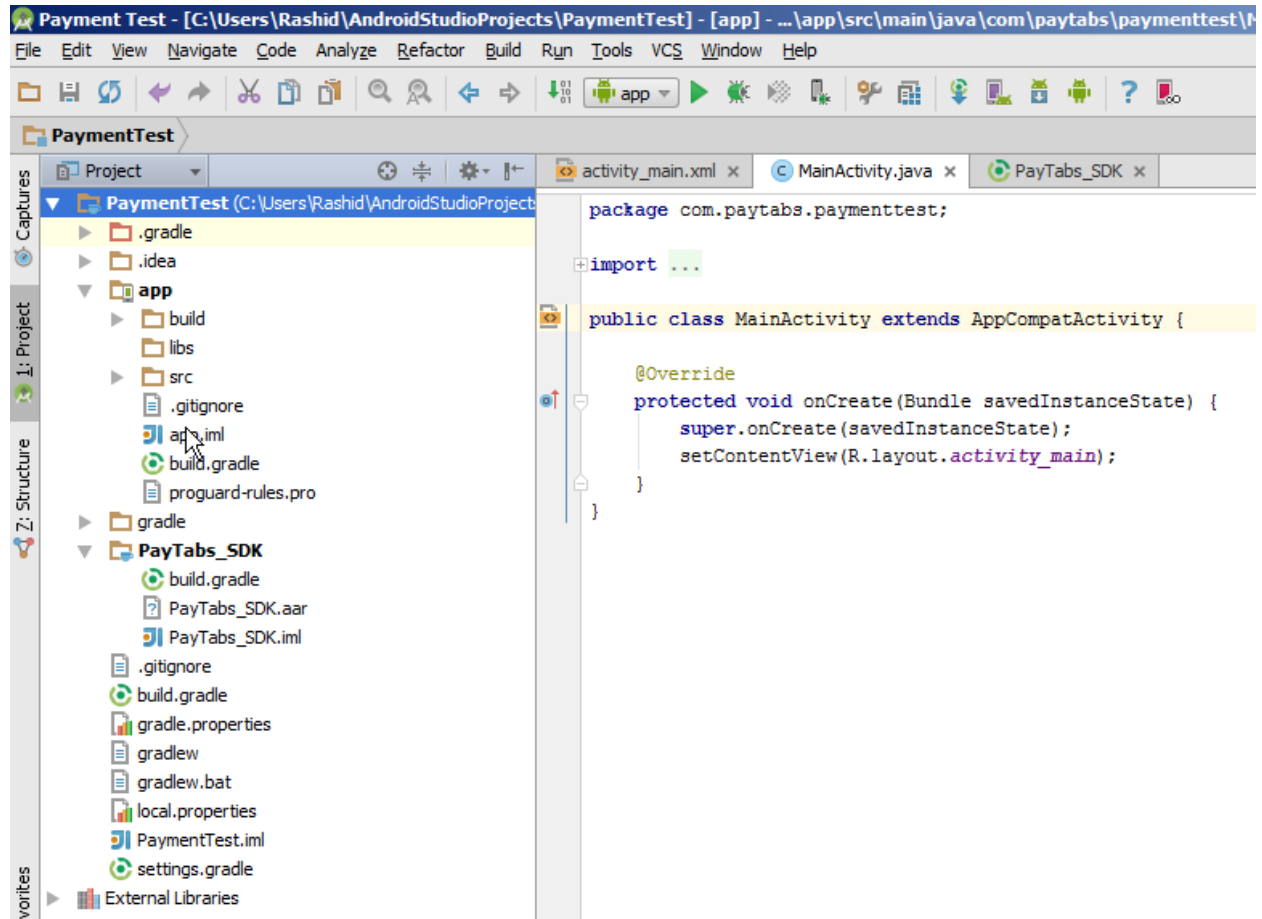


7. Now add the **Module dependency** as shown in Picture

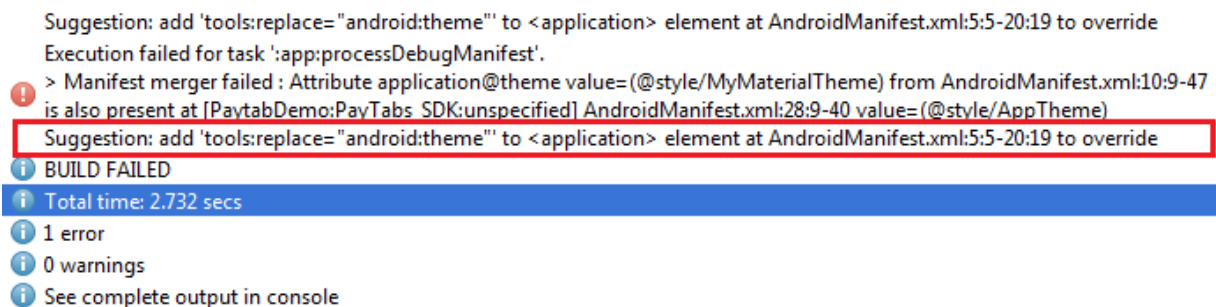


8. Choose the: **PayTabs_SDK** module to be included

9. You can confirm the Module import by changing the **Android view** to **Project view** in the **sidebar**



10. In case you face a similar issue as highlighted in the below screenshot during the integration:



You can follow these steps to fix this issue:

- i. Tag xmlns:tools="<http://schemas.android.com/tools>"
- ii. Then add tools:replace="android:theme" to the application tag

```
<manifest
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  package="yourpackage">
  <application
    .....
    tools:replace="android:icon"></application>
</manifest>
```

For more information on this, you can refer to the following link:

<http://tools.android.com/tech-docs/new-build-system/user-guide/manifest-merger>

11. Now you can start with code changes.

3 Configuring SDK Code

3.1 SDK Parameters

<i>Element</i>	<i>Description</i>	<i>Format</i>
PaymentParams.MERCHANT_EMAIL	<u>Required</u> Merchant email that you use to sign up and/or login into PayTabs Merchant Dashboard	String Up to 128 characters E.g.: <i>merchant@myapp.com</i>
PaymentParams.SECRET_KEY	<u>Required</u> SECRET Key generated by merchant dashboard this can be found by logging in to your Merchant Dashboard > Mobile Payments > Secret Key	String Up to 128 characters E.g.: <i>Mao8sdhasfyahosdap9sd</i>
PaymentParams.TRANSACTION_TITLE	<u>Required</u> This is the customer name that will be displayed in the To field in your transaction details	String Up to 32 characters E.g.: <i>John Doe</i>
PaymentParams.AMOUNT	<u>Required</u> The amount of the transaction	Number Up to 3 Decimal places E.g.: 134.999
PaymentParams.CURRENCY_CODE	<u>Required</u> The currency of the amount stated. 3 character ISO currency code	String E.g.: <i>USD for US dollar</i> <i>AED for Emirati Dirham</i> <i>BHD for Bahraini Dinar</i> <i>SAR for Saudi Riyal</i>

PaymentParams.CUSTOMER_EMAIL	<u>Required</u> Email of the customer	String Up to 32 characters E.g.: <i>customer@domain.com</i>
PaymentParams.CUSTOMER_PHONE_NUMBER	<u>Required</u> Phone Number of the Customer	String 32 characters E.g.: <i>00973312345678</i>
PaymentParams.ORDER_ID	<u>Required</u> The order id from your App to be able to map your order's to PayTabs transactions	String 32 characters E.g.: <i>4578</i>
PaymentParams.PRODUCT_NAME	<u>Required</u> Comma-separated product names involved in the transactions	String 175 characters E.g.: <i>Product1, Product2, Product3</i>
PaymentParams.ADDRESS_BILLING	<u>Required</u> Complete Address of the customer. Multiple address lines will be merged into one single line.	String Up to 40 characters E.g.: <i>Flat 11 Building 222 Block 333 Road 444 Manama Bahrain</i>
PaymentParams.CITY_BILLING	<u>Required</u> Name of the billing city selected by the customer	String Up to 13 characters E.g.: <i>Manama</i>
PaymentParams.STATE_BILLING	<u>Required</u> Billing State (part of the address) entered by the customer 2 characters ISO state code for US and Canada	String Up to 32 characters E.g.: <i>Manama</i> E.g.: if the state is New York then the state field should be NY

PaymentParams.COUNTRY_BILLING	<u>Required</u> 3 character ISO Country of the customer	String 3 character ISO country code E.g.: <i>BHR for Bahrain</i> <i>ARE for UAE</i> <i>SAU for Saudi Arabia</i>
PaymentParams.POSTAL_CODE_BILLING	<u>Required</u> Billing Postal code provided by the customer. In case the country doesn't have a valid postal code, you can pass the country international dialing code (00973)	String From 5 to 9 characters E.g.: <i>12345</i>
PaymentParams.ADDRESS_SHIPPING	<u>Required</u> Shipping address of the customer. In case you don't have physical goods, you can pass the same details as the billing details	String Up to 40 characters E.g.: <i>Flat 11 Building 222 Block 333 Road 444 Manama Bahrain</i>
PaymentParams.CITY_SHIPPING	<u>Required</u> Shipping City of the customer	String Up to 13 characters E.g.: <i>Manama</i>
PaymentParams.STATE_SHIPPING	<u>Required</u> Shipping State of the customer 2 characters ISO state code for US and Canada	String 32 characters E.g.: <i>Manama</i> E.g.: if the state is New York then the state field should be NY
PaymentParams.COUNTRY_SHIPPING	<u>Required</u> Shipping country of the customer	String 3 character ISO country code E.g.: <i>BHR</i>

PaymentParams.POSTAL_CODE_SHIPPING	<u>Required</u> Shipping postal code of the customer	String From 5 to 9 characters E.g.: 12345
PaymentParams.LANGUAGE	<u>Optional</u> User interface language	String PaymentParams.ENGLISH or PaymentParams.ARABIC Default: English
PaymentParams.TIMEOUT_IN_SECONDS	<u>Optional</u> Payment timeout	Integer Time in millisecond E.g: 60000 Default: 300000 (5 min)
PaymentParams.PAY_BUTTON_COLOR	<u>Optional</u> UI main color	String Hex Color Code E.g: #c00000 Default: #0374bc
PaymentParams.THEME	<u>Optional</u> User interface theme	String PaymentParams.THEME_LIGHT or PaymentParams.THEME_DARK Default: PaymentParams.THEME_LIGHT
PaymentParams.IS_TOKENIZATION	<u>Optional</u> Set this value as true if you wish to create a tokenization profile for the customer or use an existing token	Boolean E.g.: TRUE, FALSE

3.2 Sample Code

```
import paytabs.project.PaymentParams;
import paytabs.project.PayTabActivity;

Intent in = new Intent(getApplicationContext(), PayTabActivity.class);
// Merchant
in.putExtra(PaymentParams.MERCHANT_EMAIL, "merchant@example.com");
in.putExtra(PaymentParams.SECRET_KEY, https://paytabs.com); //Add your Secret Key Here
in.putExtra(PaymentParams.LANGUAGE, PaymentParams.ENGLISH);
in.putExtra(PaymentParams.TIMEOUT_IN_SECONDS, 300000);

in.putExtra(PaymentParams.PAY_BUTTON_COLOR, "#c00000");
```



```

in.putExtra(PaymentParams.THEME, PaymentParams.THEME_LIGHT);
// Transaction
in.putExtra(PaymentParams.TRANSACTION_TITLE, "My application title");
in.putExtra(PaymentParams.PRODUCT_NAME, "Product name");
in.putExtra(PaymentParams.AMOUNT, 3.5);
in.putExtra(PaymentParams.CURRENCY_CODE, "BHD");
in.putExtra(PaymentParams.ORDER_ID, "123456");
// Customer
in.putExtra(PaymentParams.CUSTOMER_PHONE_NUMBER, "009733");
in.putExtra(PaymentParams.CUSTOMER_EMAIL, "i.deo@example.com");
// Billing Address
in.putExtra(PaymentParams.ADDRESS_BILLING, "Flat 11 Building 222 Block 333 Road 444 Manama Bahrain");
in.putExtra(PaymentParams.CITY_BILLING, "Manama");
in.putExtra(PaymentParams.STATE_BILLING, "Manama");
in.putExtra(PaymentParams.COUNTRY_BILLING, "BHR");
in.putExtra(PaymentParams.POSTAL_CODE_BILLING, "12345"); //Put Country Phone code if Postal code not available '00973'
// Shipping Address
in.putExtra(PaymentParams.ADDRESS_SHIPPING, "Flat 11 Building 222 Block 333 Road 444 Manama Bahrain");
in.putExtra(PaymentParams.CITY_SHIPPING, "Manama");
in.putExtra(PaymentParams.STATE_SHIPPING, "Manama");
in.putExtra(PaymentParams.COUNTRY_SHIPPING, "BHR");
in.putExtra(PaymentParams.POSTAL_CODE_SHIPPING, "12345"); //Put Country Phone code if Postal code not available '00973'
//Tokenization
in.putExtra(PaymentParams.IS_TOKENIZATION, true);
startActivityForResult(in, PaymentParams.PAYMENT_REQUEST_CODE);

```

This code will pass data to `PayTabActivity`

(Note: `PayTabActivity` Declaration is already done inside `PayTabs_SDK.aar`, no need to declare it again.)

3.3 Toolbar Style Configuration

PaymentParams.PAY_BUTTON_COLOR	<u>Optional</u> UI main color	String Hex Color Code E.g: #c00000 Default: #0374bc
--------------------------------	-------------------------------------	--

PaymentParams.THEME	<u>Optional</u> User interface theme	String PaymentParams.THEME_LIGHT or PaymentParams.THEME_DARK Default: PaymentParams.THEME_LIGHT
---------------------	---	--

3.4 Add Project Dependency

The final step is to include Dependency for your project

Open **YourApp/build.gradle** file and add following line before: **PayTabs_SDK** under **dependencies** (Check Screenshot)

3.5 SDK Response

The SDK returns two values in the response after the transaction is processed:

- PayTabs Transaction ID (`PaymentParams.TRANSACTION_ID`)
- PayTabs Response Code (`PaymentParams.RESPONSE_CODE`)
- PayTabs Tokenization Code (`PaymentParams.TOKEN`)
- PayTabs Tokenization email(`PaymentParams.CUSTOMER_EMAIL`)
- PayTabs Tokenization password(`PaymentParams.CUSTOMER_PASSWORD`)

To return the response from PayTabs_SDK you need to override your Activity's **onActivityResult** (Read <http://developer.android.com/training/basics/intents/result.html>)

Inside the `onActivityResult` function add the following lines

```
super.onActivityResult(requestCode, resultCode, data);
if (resultCode == RESULT_OK && requestCode == PaymentParams.PAYMENT_REQUEST_CODE) {
    Log.e("Tag", data.getStringExtra(PaymentParams.RESPONSE_CODE));
    Log.e("Tag", data.getStringExtra(PaymentParams.TRANSACTION_ID));
    Toast.makeText(MainActivity.this, data.getStringExtra(PaymentParams.RESPONSE_CODE),
    Toast.LENGTH_LONG).show();
    Toast.makeText(MainActivity.this, data.getStringExtra(PaymentParams.TRANSACTION_ID),
    Toast.LENGTH_LONG).show();
    if (data.hasExtra(PaymentParams.TOKEN)
    && !data.getStringExtra(PaymentParams.TOKEN).isEmpty()) {
        Log.e("Tag", data.getStringExtra(PaymentParams.TOKEN));
        Log.e("Tag", data.getStringExtra(PaymentParams.CUSTOMER_EMAIL));
        Log.e("Tag", data.getStringExtra(PaymentParams.CUSTOMER_PASSWORD));
    }
}
```

```

        Toast.makeText(MainActivity.this, data.getStringExtra(PaymentParams.TOKEN),
Toast.LENGTH_LONG).show();
        Toast.makeText(MainActivity.this, data.getStringExtra(PaymentParams.CUSTOMER_EMAIL),
Toast.LENGTH_LONG).show();
        Toast.makeText(MainActivity.this, data.getStringExtra(PaymentParams.CUSTOMER_PASSWORD),
Toast.LENGTH_LONG).show();
    }
}

```

The possible values for the response_code variable are as in the following table

Error Code	Description
100	Payment is completed Successfully.
481	<p>This transaction may be suspicious, your bank holds for further confirmation. Payment Provider has rejected this transaction due to suspicious activity; Your bank will reverse the dedicated amount to your card as per their policy.</p> <p>Important Note: These transactions are rejected by our fraud monitoring tools; however the transactions are only authorized (Not settled). In case you verify the transaction is genuine you can contact us to force accept the transaction after checking if it is not fraud and we might ask verification documents like ID card and front side of credit card used showing only name and last 4 digits, otherwise the transaction amount will be released back to the cardholder according to the issuing bank policy. In case you are using IPN, it will post the response once the transaction is force Accepted from our side</p>
Any other response code	Any other response means that the transaction has been rejected and the rejection reason is the description of the corresponding response code
**	The Complete list of response codes and their description can be found in Merchant Dashboard > Help > Reason Codes

4 Verify Transaction

This method verifies the result of the payment. When a payment is processed, you will receive transaction id in the response. When the customer completes a payment and is redirected back to your app, the transaction_id is used to verify the status of the payment whether it is a successful transaction or a failed transaction.

PATH `https://www.paytabs.com/apiv2/verify_payment_transaction`

REQUEST METHOD POST

PRODUCTION LIVE

4.1 Request

<i>Element</i>	<i>Description</i>	<i>Format</i>
merchant_email	<u>Required</u> Merchant email that you use to sign up and/or login into PayTabs Merchant Dashboard	String Up to 128 characters E.g.: <i>foof@foo.com</i>
secret_key	<u>Required</u> SECRET Key generated by the merchant dashboard	String Up to 128 characters E.g.: <i>Mao8sdhasfyahosdap9sd</i>
transaction_id	<u>Required</u> This is the transaction_id that is returned in the response of the payment.	String Up to 12 characters E.g.: <i>130017</i>
order_id	<u>Optional</u> This is the order id from your system, you can use that instead of transaction_id parameter	32 characters E.g.: <i>4578</i>

4.2 Response

<i>Element</i>	<i>Description</i>	<i>Format</i>
result	The string representation for the result, whether the transaction has succeeded or failed and the reason why your transaction failed.	String E.g.: Payment is completed.
response_code	The response code/error code of the API call. A complete list of response codes can be found in Merchant Dashboard > Help > Reason Codes	String Up to 4 characters E.g.: 100
pt_invoice_id	The invoice/PayPage ID of the transaction, this is available only for PayPage and API integration it will be null in case of mobile SDK transactions	String Up to 12 characters E.g.: null
amount	The transaction amount.	String Up to 3 Decimal places E.g.: 123.399
currency	The currency of the transaction amount.	String 3 character ISO country code E.g.: BHD
transaction_id	The ID of the latest transaction that occurred for this invoice	String Up to 12 characters E.g.: 900942
order_id	The order id from your system to be able to map your order's to PayTabs transactions	String 32 characters E.g.: 4578
card_last_four_digits	This is the last four digits of the credit card used in the transaction	String Eg : "0022"

4.3 Response Codes

Error Code	Description
4001	Missing parameters
4002	Invalid Credentials
4003	There are no transactions available.
0404	You don't have permissions
100	Payment is completed Successfully.
481	<p>This transaction may be suspicious, your bank holds for further confirmation. Payment Provider has rejected this transaction due to suspicious activity; Your bank will reverse the dedicated amount to your card as per their policy.</p> <p>Important Note: These transactions are rejected by our fraud monitoring tools; however the transactions are only authorized (Not settled). In case you verify the transaction is genuine you can contact us to force accept the transaction after checking if it is not fraud and we might ask verification documents like ID card and front side of credit card used showing only name and last 4 digits, otherwise the transaction amount will be released back to the cardholder according to the issuing bank policy. In case you are using IPN, it will post the response once the transaction is force Accepted from our side</p>
**	The Complete list of response codes can be found in Merchant Dashboard > Help > Reason Codes

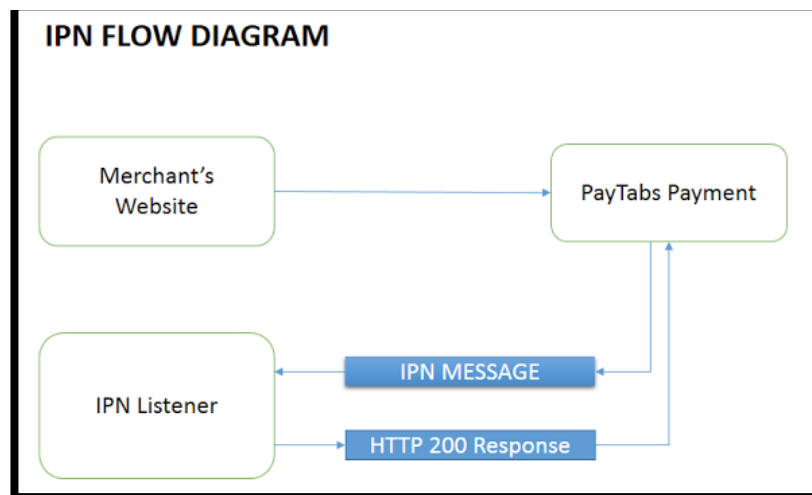
5 PayTabs IPN (Instant Payment Notification)

5.1 How IPN Works

When a customer makes a payment on the mobile SDK, the transaction is processed by PayTabs and a confirmation is sent back to the customer on the merchant's application. Additionally, a notification email will be sent to the merchant.

This scenario, leave no scope for any related ERP or E-commerce or Accounting Systems to be updated. This is where IPN comes in.

As soon as a transaction is created or altered, PayTabs IPN will instantly send a notification to the merchant's specified IPN Listener URL, which can have any code that will assist in updating ERP or dependent systems. Alternatively, the merchant may wish to save this information in his local database.



5.2 Set up your IPN Listener

1. Create an IPN Listener that receives and processes the IPN messages sent by PayTabs.
2. Log into your PayTabs Merchant Account > Go to “My Profile” and click on “Edit”.
3. Enter the URL of your IPN Listener and click on “Submit”. IPN will not work with a local host IPN Listener URL. Testing the IPN Message Service is only possible on a publicly hosted URL.

The image shows a screenshot of the PayTabs merchant account setup form for IPN. The form includes the following fields and options:

- Paypage Currency:** A dropdown menu set to 'USD'.
- IPN Listener URL:** A text input field containing 'IPN Listener URL', which is highlighted with a red rectangular border.
- IPN Listener URL for Transactions Reports:** A text input field containing 'IPN Listener URL for Transactions Reports'.
- Payment Timeout (Seconds):** A checkbox labeled 'No Timeout' which is checked.
- Buttons:** 'Submit' and 'Cancel' buttons at the bottom.

Now your IPN Service is ready to go!

5.3 IPN Events

Your listener will be triggered on the following events:

1. Successful Transaction
2. Rejected Transaction
3. Transaction, Force Accepted by PayTabs
4. Refunded Transaction

5.4 Contents / Data of the IPN

The Instant Payment Notification will return the following information depending on the type of event that has occurred.

<i>Element</i>	<i>Description</i>	<i>Format</i>
transaction_id	PayTabs Transaction ID	String E.g.: 12345
order_id	Merchant's Website order ID, this the same as reference_no value posted in Create PayPage call	String Up to 12 characters E.g.: 90094
response_code	The same as response_code value returned in the response of verify_payment API call. A complete list of response codes can be found in Merchant Dashboard > Help > Reason Codes	String Up to 4 characters E.g.: 100, 481
customer_name	Name of the Customer	String 32 characters E.g.: John
customer_email	Email of the customer	String 32 characters E.g.:customer@domain.com
transaction_amount	The transaction amount.	String Up to 3 Decimal places E.g.: 123.399

transaction_currency	The currency of the amount stated. 3 character ISO currency code	String E.g.: BHD
customer_phone	Phone number of the customer	String Minimum 6 numbers up to 32 numbers E.g.: 3312345678
last_4_digits	The last 4 digits of the credit card number used in the transaction.	String E.g.: 6908
first_4_digits	The first 4 digits of the credit card number used in the transaction.	String E.g.: 5387
card_brand	The card brand of the credit card used in the transaction.	String E.g.: MasterCard
datetime	Date/Time of the transaction This value is returned in case of rejected or approved transactions	String dd-mm-yyyy hh:mm:ss 25-04-2016 12:25:26 PM
shipping_address	Shipping address of the customer	String 64 characters E.g.: <i>Flat abc road 123</i>
shipping_city	Shipping City of the customer	String 32 characters E.g.: <i>Manama</i>
shipping_country	Shipping country of the customer	String 3 character ISO country code E.g.: <i>BHR</i>
shipping_state	Shipping State of the customer	String 32 characters E.g.: <i>Manama</i>
shipping_postalcode	Shipping postal code of the customer	String Up to 9 characters E.g.: <i>403129</i>
amount	The transaction amount.	String Up to 3 Decimal places E.g.: 123.399
currency	The currency of the amount stated. 3 character ISO currency code	String E.g.: BHD

detail	The string representation for the result, whether the transaction has succeeded or failed and the reason why your transaction failed.	String E.g.: <i>Payment is completed.</i>
force_accept_datetime	Optional Date/Time of when the transaction is force accepted. This value is returned instead of "DateTime" value for transactions when they are force accepted only	String dd-mm-yyyy hh:mm:ss 25-04-2016 12:25:26 PM
refund_req_amount	Optional The refunded amount for an approved refund request. This value is returned once a refund request for a transaction is approved	String Up to 3 Decimal places E.g.: 123.399
secure_sign	A secure sign key in order for the merchant to validate if the payment is returning from PayTabs This value is returned in case of force accepted or rejected transactions only	Alphanumeric E.g.:1f074e6f8b61d4f0af3042ce118e82535f8cb447
transaction_response_code	The same as response_code value returned in the response of verify_payment API call. A complete list of response codes can be found in Merchant Dashboard > Help > Reason Codes	String Up to 4 characters E.g.: 100, 481
refund_request_id	PayTabs Refund request ID	String E.g.: 12345
refund_reason	Reason for request by merchant	String Eg : Test Refund

5.5 Response Codes

<i>Response Code</i>	<i>Description</i>
100	Payment has been accepted successfully
481 or 482	Transaction rejected by fraud monitoring tools. These transactions can be force accepted upon merchant's request
5002	Payment has been forcefully accepted
5003	Payment has been refunded
5004	Your refund request has been rejected
** The Complete list of response codes can be found on the Merchant Dashboard > Help > Reason Codes	

5.6 Sample IPN Response

5.6.1 IPN sample response for successful SDK transactions

Array

```
(  
    [transaction_id] => 263079  
    [order_id] => 1234567  
    [response_code] => 100  
    [customer_name] => John Doe  
    [customer_email] => John@gmail.com  
    [transaction_amount] => 1.00  
    [transaction_currency] => USD  
    [customer_phone] => 009733  
    [last_4_digits] => 1111  
    [first_4_digits] => 4111  
    [card_brand] => Visa  
    [datetime] => 06-04-2017 04:21:19 PM  
    [shipping_address] => Flat 1,Building 123, Road 2345  
    [shipping_city] => Juffair  
    [shipping_country] => BHR  
    [shipping_state] => Manama  
    [shipping_postalcode] => 00973  
    [amount] => 1.00  
    [currency] => USD  
    [detail] => Transaction has been Successful  
    [transaction_response_code] =>100  
    [secure_sign] => 7ec0ac0890acbe33139efe989d32e97e061f93f4  
)
```

5.6.2 IPN sample response for rejected SDK transactions

Array

```
(
    [transaction_id] => 263079
    [order_id] => 1234567
    [response_code] => 202
    [customer_name] => John Doe
    [customer_email] => John@gmail.com
    [transaction_amount] => 1.00
    [transaction_currency] => USD
    [customer_phone] => 009733
    [last_4_digits] => 1111
    [first_4_digits] => 4111
    [card_brand] => Visa
    [datetime] => 06-04-2017 04:21:19 PM
    [shipping_address] => Flat 1,Building 123, Road 2345
    [shipping_city] => Juffair
    [shipping_country] => BHR
    [shipping_state] => Manama
    [shipping_postalcode] => 00973
    [amount] => 1.00
    [currency] => USD
    [detail] => An expired card has been used in this transaction
    [transaction_response_code] =>202
    [secure_sign] => 7ec0ac0890acbe33139efe989d32e97e061f93f4
)
```

5.6.3 IPN sample response for rejected SDK transactions by fraud monitoring

Array

```
(
    [transaction_id] => 263079
    [order_id] => 1234567
    [response_code] => 481
    [customer_name] => John Doe
    [customer_email] => John@gmail.com
    [transaction_amount] => 1.00
    [transaction_currency] => USD
    [customer_phone] => 009733
    [last_4_digits] => 1111
    [first_4_digits] => 4111
    [card_brand] => Visa
    [datetime] => 06-04-2017 04:21:19 PM
    [shipping_address] => Flat 1, Building 123, Road 2345
    [shipping_city] => Juffair
    [shipping_country] => BHR
    [shipping_state] => Manama
    [shipping_postalcode] => 00973
    [amount] => 1.00
    [currency] => USD
    [detail] => This transaction may be suspicious, your bank holds for further
confirmation. Payment Provider has rejected this transaction due to suspicious
activity; your bank will reverse the dedicated amount to your card as per their
policy.
)
```

```
[transaction_response_code] =>481
[secure_sign] => 7ec0ac0890acbe33139efe989d32e97e061f93f4
)
```

5.6.4 IPN sample response for force accepted SDK transactions

```
Array
(
    [transaction_id] => 263076
    [order_id] => 25
    [response_code] => 5002
    [customer_name] => John Doe
    [customer_email] => john@email.com
    [transaction_amount] => 1.00
    [transaction_currency] => USD
    [customer_phone] => 973 123456
    [last_4_digits] => 1111
    [first_4_digits] => 4111
    [card_brand] => Visa
    [secure_sign] => 7ec0ac0890acbe33139efe989d32e97e061f93f4
    [force_accept_datetime] => 06-04-2017 12:01:40 PM
    [transaction_response_code] =>5002
)
```

5.6.5 IPN sample response for refunded SDK transactions

```
Array
(
    [refund_request_id] =>21741
    [refund reason] => test
    [transaction_id] => 263076
    [order_id] => 25
    [response_code] => 5003
    [customer_name] => John Doe
    [customer_email] => john@email.com
    [transaction_amount] => 100.00
    [transaction_currency] => USD
    [customer_phone] => 973 123456
    [last_4_digits] => 1111
    [first_4_digits] => 4111
    [card_brand] => Visa
    [secure_sign] => 7ec0ac0890acbe33139efe989d32e97e061f93f4
    [refund_req_amount] => 50
    [transaction_response_code] =>5003
)
```

6 Refund Transactions

This method enables you to submit the refund requests using the below API function. Refund requests will be processed in around 24 hours and if you are using IPN service the IPN will post a response once the refund request is approved or rejected. Partial refunds are available. You can submit a single refund request for the whole amount of Multiple Partial refunds for the same transactions. However, if your refund for a certain transaction is still pending for approval, you can't submit a second refund request for the same transaction. All refund requests submitted using the API is also available at the Merchant Dashboard.

Note: This feature is also available from Merchant Dashboard > Bank Account > Refunds

Note: This API can be used by Active accounts only; it's not available for Demo merchants

PATH https://www.paytabs.com/apiv2/refund_process
REQUEST METHOD POST
PRODUCTION LIVE

6.1 Request

<i>Element</i>	<i>Description</i>	<i>Format</i>
merchant_email	<u>Required</u> Merchant email that you use to sign up and/or login into PayTabs Merchant Dashboard	String Up to 128 characters E.g.: foof@foo.com
secret_key	<u>Required</u> SECRET Key can be found at the merchant dashboard	String Up to 128 characters E.g.: Mao8sdhasfyahosdap9sd
transaction_id	<u>Optional</u> The transaction id of the successful payment that you wish to refund This is the pt_transaction_id that is returned in the SDK response of the payment.	String Up to 12 characters E.g.: 130017
order_id	<u>Optional</u> The order id of the payment from your system You can either use this or use the transaction_id(either one of transaction_id or order_id should be passed)	String Up to 32 characters E.g.: 4578

refund_amount	<u>Required</u> The amount you wish to refund, it can either be a partial amount or full amount	Up to 3 Decimal places E.g.: 134.999
refund_reason	<u>Required</u> The reason for refunding the transaction	String Up to 256 Characters

6.2 Response

<i>Element</i>	<i>Description</i>	<i>Format</i>
result	The string representation for the result, whether the transaction has succeeded or failed and the reason why your transaction failed.	String E.g.: <i>Payment is completed.</i>
response_code	The response code/error code of the API call. The complete list of response codes can be found in Merchant Dashboard > Help > Reason Codes	String Up to 4 characters E.g.: <i>4002</i>

6.3 Response Codes

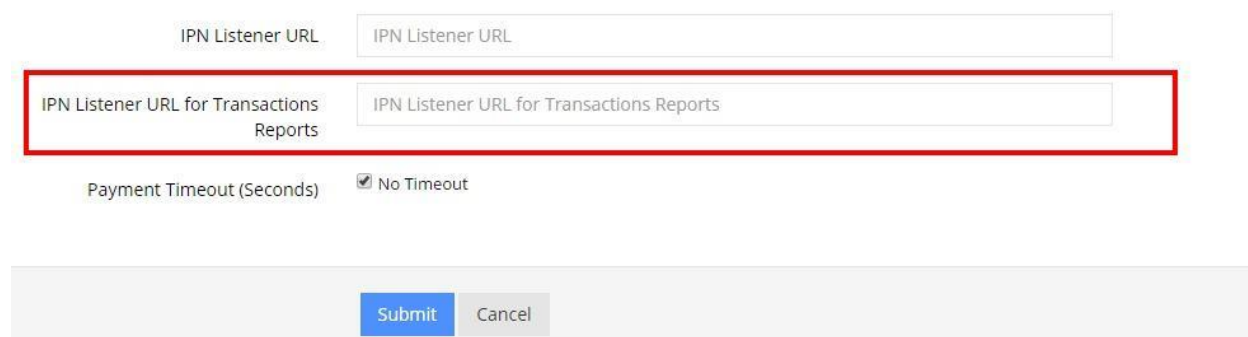
<i>Error Code</i>	<i>Description</i>
4001	Missing parameters
4002	Invalid Credentials
810	You already requested Refund for this Transaction ID
811	Refund amount you requested is greater than transaction amount
812	Refund request is sent to Operation for Approval. You can track the Status on Merchant Dashboard
813	You are not authorized to view this transaction
814	Refund request is processed.

7 Transactions Reports

This API call will post all transactions that have taken place within the specified time interval to a URL.

Before calling this API, you will need to set the listener URL for the reports. Login to your merchant dashboard and edit your profile. Set up your IPN Listener

1. Create an IPN Listener that receives and processes the IPN messages sent by PayTabs.
2. Log into your PayTabs Merchant Account > Go to “My Profile” and click on “Edit”.
3. Enter the URL of your IPN Listener In the ‘IPN Listener for Transactions Reports’ and click on “Submit”. IPN will not work with a local host IPN Listener URL. Testing the IPN Message Service is only possible on a publicly hosted URL.



Once you call the transaction_reports API, all the transactions will be posted to the listener URL and the response will contain the number of transactions that will be posted.

PATH https://www.paytabs.com/expressv2/transaction_reports

REQUEST METHOD POST

PRODUCTION LIVE

7.1 Request

<i>Element</i>	<i>Description</i>	<i>Format</i>
merchant_id	<u>Required</u> Merchant id as in merchant dashboard	String E.g.: 10011626
secret_key	<u>Required</u> Secret Key is generated from merchant Dashboard.	String E.g.: <i>Mao8sdhasfyahosdap9sd</i>
startdate	<u>Required</u> Start Date Format should be yyyy-mm-dd	String E.g.: 2018-10-03

enddate	<u>Required</u> End Date Format should be yyyy-mm-dd	String E.g.: 2018-10-10
---------	--	----------------------------

7.2 Response

<i>Element</i>	<i>Description</i>	<i>Format</i>
response_code	The response code of the API call	String E.g.: 4001, 4090, 4091
transaction_count	The total number of transactions.	String E.g.: 23
details	The details of all the retrieved transactions	String Details of the transaction
status	Payment Status String	String E.g.: Approved/ Rejected Refunded / Force Accepted
response_code	Payment Result Response Code 100 for successful/ refunded payment 481: DM declined/ Force Accepted Payment other: Rejected	String E.g.: 475
transaction_id	PayTabs Transaction ID	String E.g.: 12345
order_id	Merchant's Website order ID	String E.g.: 1234
auth_code	Authorization Code	String E.g.: AhjzbwSR8VsHl0l4QVCEcgSegdUxd

transaction_title	Title of the transaction	String Eg : new transaction
amount	Transaction Amount	String E.g.: 199.287
currency	Transaction Currency	String 3 Character ISO country Code E.g.: AED
net_amount	The equivalent of the original amount converted to merchant dashboard Currency	String E.g.: 199.287
net_amount_currency	Merchant Dashboard Currency	String 3 Character ISO country Code E.g.: AED
net_amount_credited	Net Amount Credit to Merchant's Balance after deducting PayTabs fees	String E.g.: 199.287
net_amount_credited_currency	Merchant Dashboard Currency	String 3 Character ISO country Code E.g.: AED
transaction_datetime	Date and time of the transaction	String E.g.: 23-03-2016 01:39:16 pm
force_accept_datetime	Date and time of force accept (If applicable)	String E.g.: 23-03-2016 01:39:16 am

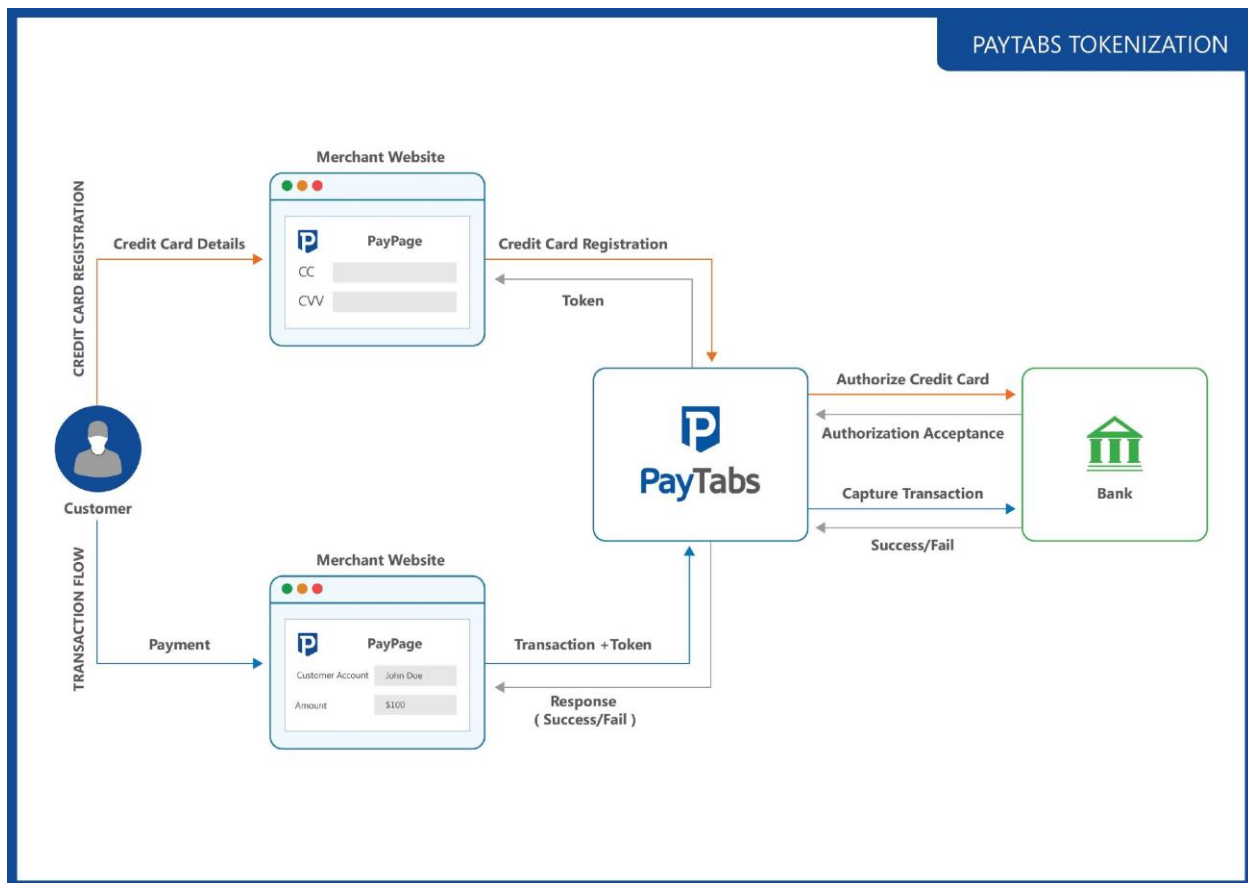
7.3 Error Codes

Error Code	Description
4001	Missing parameters
4002	Invalid Credentials
4090	Data Found
4091	No Data

8 Tokenization in SDK

The Tokenization feature gives you the option to create tokenization profiles to save credit card information for returning customers to your website.

Please Note: Tokenization feature is not available for merchants registered or operating in the Kingdom of Saudi Arabia.



In order to use tokenization in the SDK, you will need to pass additional parameters in the method.

This will result in the creation of a normal Payment request, where the customer has to perform and authorize the first payment and receive the token for the credit card details that he has entered.

The following parameters have to be added to the creation of the payment request in order to create a token for the customer.

<i>Element</i>	<i>Description</i>	<i>Format</i>
PaymentParams.IS_TOKENIZATION	<u>Optional</u> Set this value as true if you wish to create a tokenization profile for the customer or use an existing token	Boolean E.g.: TRUE, FALSE

8.1 Sample Code

To create a new token

```
in.putExtra(PaymentParams.IS_TOKENIZATION, true);
```

To use an existing token that has been previously created

8.2 Response

The token will be added to the response and returned in the variable as below:

PaymentParams.TOKEN

PaymentParams.CUSTOMER_EMAIL

PaymentParams.CUSTOMER_PASSWORD

9 Process Payments with Existing Token

This method uses an existing token for a returning customer to process payment. You will need to pass the details (token, customer email and customer password) of the token that you previously created in order to perform a transaction.

PATH	https://www.paytabs.com/apiv3/tokenized_transaction_prepare
REQUEST METHOD	POST
PRODUCTION	LIVE

9.1 Request

You need to pass all the parameters as stated below:

<i>Element</i>	<i>Description</i>	<i>Format</i>
merchant_email	<u>Required</u> Merchant email id used to login into PayTabs Merchant	String E.g.: testing@test.com
secret_key	<u>Required</u> SECRET Key generated by merchant dashboard	String E.g.: <i>Mao8sdhasfyahosdap9sd</i>
title	<u>Required</u> Description or title of the transaction done by the customer	String 32 characters E.g.: <i>Order # 3321</i>
cc_first_name	<u>Required</u> First Name of the Customer	String 32 characters E.g.: <i>John</i>
cc_last_name	<u>Required</u> Last Name of the Customer	String 32 characters E.g.: <i>Doe</i>
order_id	<u>Required</u> Merchant's Website order ID, this is same as the reference_no value	String 32 characters E.g.: <i>Dx2365</i>
product_name	<u>Required</u> Product title of the product.	String 256 characters E.g.: <i>SamsungS5</i>
customer_email	<u>Required</u> Email of the customer	String 32 characters E.g.: <i>customer@domain.com</i>

phone_number	<u>Required</u> Phone Number of the Customer	String 32 characters E.g.: 3312345678
amount	<u>Required</u> Amount of the products and other charges, it should be equal to: amount = (sum of all products' (unit_price * quantity)) + other_charges This field will be displayed in the invoice as the sub total field	Float Up to 3 Decimal places E.g.: 123.399
currency	<u>Required</u> Currency of the amount stated. 3 character ISO currency code	String E.g.: BHD
address_billing	<u>Required</u> Complete Address of the customer. Multiple address lines will be merged into one single line.	String 64 characters E.g.: Flat 11 Building 222 Block 333 Road 444 Manama Bahrain
state_billing ***	<u>Required</u> Billing State (part of the address) entered by the customer	String 32 characters E.g.: Manama
city_billing	<u>Required</u> Name of the billing city selected by customer	String 32 characters E.g.: Manama
postal_code_billing	<u>Required</u> Billing Postal code provided by the customer	String Up to 9 characters E.g.: 12345
country_billing	<u>Required</u> Country of the customer	String 3 character ISO country code E.g.: BHR
address_shipping **	<u>Required</u> Shipping address of the customer	String 64 characters E.g.: Flat abc road 123
city_shipping	<u>Required</u> Shipping City of the customer	String 32 characters E.g.: Manama
state_shipping ***	<u>Required</u> Shipping State of the customer	String 32 characters E.g.: Manama

postal_code_shipping	<u>Required</u> Shipping postal code of the customer	String Up to 9 characters E.g.: 403129
country_shipping	<u>Required</u> Shipping country of the customer	String 3 character ISO country code E.g.: BHR
pt_token	<u>Required</u> This pt_token is received in the API post response after completing the payment; it will be redirected to return_url. While returning back to that URL, it will send a POST request	String E.g.: R7ANsPK1q91fv5Q0bmQ3
pt_customer_email	<u>Required</u> The customer email linked to the tokenization profile used, by default when the profile is created at the first successful payment, it will use customer_email value sent in the API to link it to the token	String E.g.: customer@domain.com
pt_customer_password	<u>Required</u> This pt_customer_password is received in the API post response after completing the payment; it will be redirected to return_url. While returning back to that URL, it will send a POST request to that page.	String E.g.: 1q91fv5Q0b

9.2 Response

<i>Element</i>	<i>Description</i>	<i>Format</i>
result	The string representation for result, whether transaction has succeeded or failed and the reason why your transaction failed.	String E.g.: <i>Approved</i>
response_code	The response code / error code of the API call. Complete list of response codes can be found in Merchant Dashboard > Help > Reason Codes	String Up to 4 characters E.g.: 4002

transaction_id	Transaction id of the token transaction.	String Up to 12 characters E.g.: 90094
----------------	--	--

9.3 Response Codes

Code	Description
4001	Missing parameters
4002	Invalid Credentials
0404	You don't have permissions
4015	Invalid tokenization Credentials
4091	There are no transactions available.
100	Payment is completed.
481 482	This transaction may be suspicious. If this transaction is genuine, please contact PayTabs customer service to enquire about the feasibility of processing this transaction.
Any response code other than 100, 481, 482	Any other response than 100, 482, 481 means that the transaction has been rejected and the rejection reason is the description of the corresponding response code

10 Test Credit Card Numbers

To test your payment process, you can typically use any valid credit card number or you can use the ones listed below.

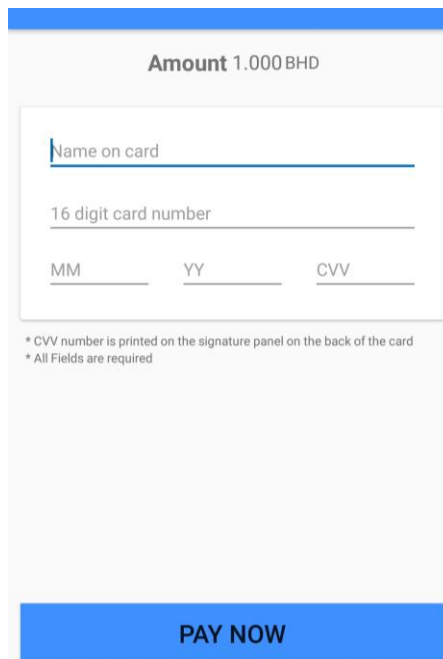
Please do not use test cards if your PayTabs Merchant Account is Active. This will cause your transactions to be rejected.

Card Number	Card Type	Description	CVV	Expiry Date
4111111111111111	VISA	Without authentication window	123	12/22
4000000000000002	VISA	With authentication window (3D secure)	123	12/22
4000000000000127	VISA	Card enrollment option during purchase process	123	12/22
5200000000000007	MasterCard	With authentication window (3D secure)	123	12/22
5200000000000114	MasterCard	Without authentication window	123	12/22
5200000000000122	MasterCard	Card enrollment option during purchase process	123	12/22

11 Screenshots of the application

a. PayTabs Mobile Payment Page

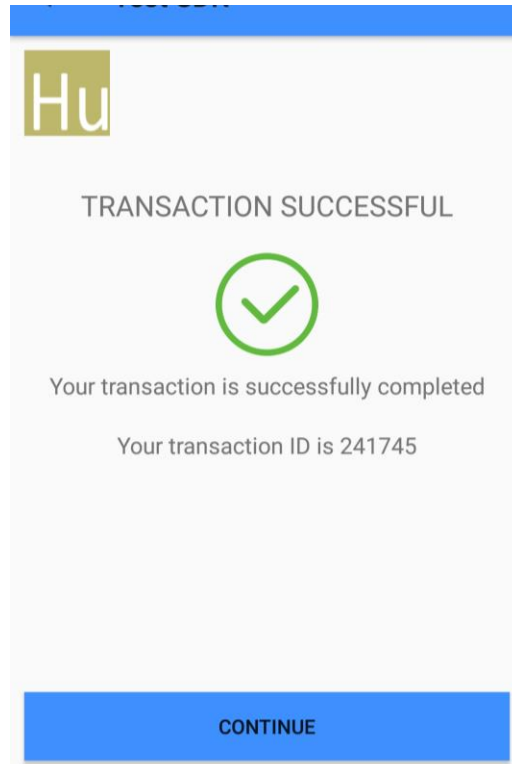
- The customer will be redirected to PayTabs payment page to enter the card details which will show as follows.
- The payment page will display the Logo you submitted at your PayTabs Merchant Account on the top left of the page and the Store Name submitted at your PayTabs Merchant Account on the top right.
- The required card information will be:
 - Card Number
 - Card Holder Name
 - Expiration Date (mm/yy)
 - CVV (Card Verification Code)



The screenshot displays a mobile payment interface. At the top, a blue header bar is visible. Below it, the text "Amount 1.000 BHD" is centered. The main form area contains several input fields: "Name on card", "16 digit card number", and "MM" (month) and "YY" (year) for the expiration date. To the right of the month and year fields is a "CVV" field. Below these fields, there are two lines of small text: "* CVV number is printed on the signature panel on the back of the card" and "* All Fields are required". At the bottom of the form, there is a prominent blue button labeled "PAY NOW".

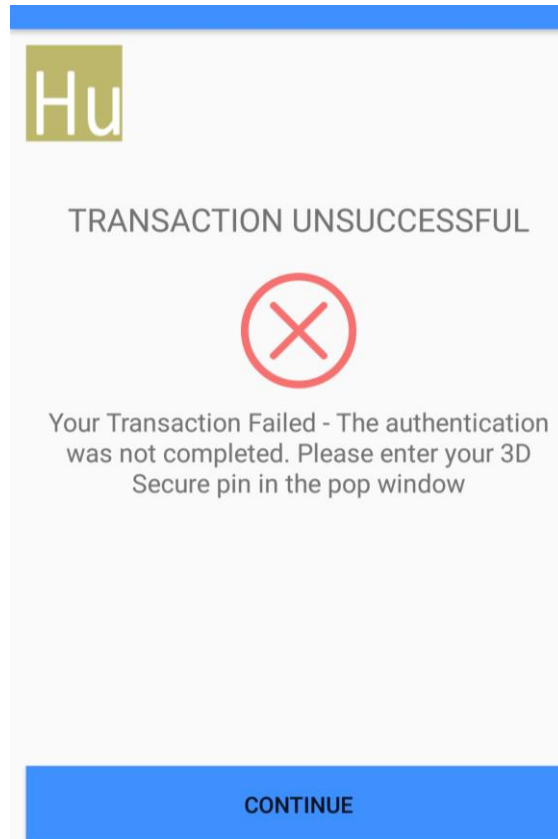
b. Successful Payment Result Page

- Once the customer submits the card information to process the payment, if the payment is successful, the customer will be redirected to the Successful result page that will return the successful transaction ID to the customer.



c. Rejected Payment Result

- Once the customer submits the card information to process the payment, if the payment is unsuccessful, the customer will be redirected to the Unsuccessful result page .



12 Frequently Asked Questions

1. Can we change the theme color to match our Android application?

No, currently we don't have the feature.

2. What is "Payment Force Accept"? When do we forcefully accept a payment?

Force accepting a payment will be done in case of any rejected transaction if proved to be genuine. In case, you as the merchant can verify that the transaction is genuine, you will need to contact PayTabs customer care to request a Force Accept on the transaction after confirming that it is not fraud. You might be asked to provide documents for verification like ID card and the front face of the credit card that was used in the transaction, showing only the name and the last 4 digits. Otherwise, the transaction amount will be released back to the cardholder according to the issuing bank policy.

3. We have included scan card dependency in Android, but we are unable to see the "Scan Card" option in UI?

We have disabled and removed this option due to the significant increase in the size of the card OCR software.

4. For every success or failure transaction, will IPN listener trigger?

IPN listener will be triggered on the following events:

- Successful Transaction
- Rejected Transaction
- Transaction, Force Accepted by PayTabs
- Refunded Transaction

5. How can we test refund transactions in both Android and iOS. Is there any way to test with one card for testing purpose?

Refund requests cannot be submitted for demo transactions. You will need to refund request for a LIVE transaction but kindly limit the same to 1 or 2 transactions.



Android SDK Integration Guide – [Version 3.0](#)

www.paytabs.com