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MERCHANT SERVICES

API SPECIFICATIONS FOR

HOSTED PAYMENT PAGE

+

3 ENDPOINTS

+

GENERAL OPERATIONAL FUNCTIONS

INTEGRATION

(Version 13.49)

Last updated on 13th Jul 2023

RAZER MERCHANT SERVICES

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Social Networks

https://twitter.com/Razer_MS

https://facebook.com/RazerMerchantServices

https://youtube.com/c/RazerMerchantServices

https://instagram.com/RazerMerchantServices

https://linkedin.com/company/RazerMerchantServices

Developer Platforms

https://github.com/RazerMS

Mobile XDK, seamless and in-page checkout, and many shopping carts payment plugin/module/addon/extension are available

ChangeLogs

Date	Version	Description
2014/05/16	v11.0	Formalize the document
2014/06/14	v12.0	Simplified and consolidating API documents
2016/10/24	v13.0	Declare EOL of inactive channels
2016/12/03	v13.3	Introduce secret key and changed of some critical APIs hashing based on secret key
2017/09/08	v13.6	Removal of obsoleted channels
2017/10/10	v13.7	Splitting payment and non-payment request endpoint FQDN, adding sandbox URL
2018/05/31	v13.8	Adding Pick-n-Pay APIs
2018/08/20	v13.9	Adding card BIN info API
2019/01/04	v13.9	Update value of channel in return URL, withdraw Pay-n-Pick from this document
2019/04/30	v13.9	Rebranding to Razer Merchant Services
2019/05/07	v13.10	Withdrawal of escrow and mass payout APIs
2019/06/17	v13.11	Adding currency & error code/desc to requery APIs response
2019/09/20	v13.12	Transfering predefined bank and FTT list to Razer Escrow & Mass Payout API
2019/11/29	v13.13	Adding Taiwan payment channels, removing EOL channels table
2020/01/09	v13.14	Adding eWallet channel (GrabPay, Maybank QRPay), 51 currencies supported for multi-currency card acceptance
2020/03/24	v13.14	Update Settlement Report API version 3.0 to 4.0 that includes refund and chargeback records
2020/08/27	v13.15	Adding Thailand credit card channel.
2020/09/18	v13.16	Changing all API FQDN to Razer domain; Enhanced settlement report API to support duration in seconds from a specific time
2020/10/02	v13.16	Minor enhancement on the daily transaction report API to include all optional fields
2020/11/06	v13.17	Adding Cash-TH channel
2020/11/24	v13.18	Adding Cash-KKMart channel
2021/01/07	v13.19	Adding ShopeePay channel
2021/01/14	V13.20	Adding new FPX B2C & B2B channels (Agrobank, Citibank, UOB, Bank Rakyat, Affin, and etc.)
2021/01/29	V13.21	Minor enhancement on daily transaction report and Capture Request API
2021/03/10	v13.22	Adding/removing of payment channel's error code table
2021/06/09	v13.23	Adding DuitNow group channel, additional optional billing info, and update Thailand channel
2021/07/01	v13.23	Adding AppDeeplink parameter to payment request

2021/07/13	v13.24	Adding Singapore PayNow
2021/07/28	v13.24	Adding eNets Debit error code & removing Razer Pay
2021/08/24	v13.25	Changing all www.onlinepayment.com.my to pay.merchant.razer.com
2021/08/27	v13.26	Adding installment channels
2021/10/15	v13.26	- Rectified the key used in FOREX API - Adding KBank PayPlus error codes - Releasing channel value in callback and notification messages
2021/10/28	v13.26	- Adding KTB_IB & SCB_IB error codes
2021/11/03	v13.26	- Adding Crypto_tripleA
2021/11/23	v13.27	- Adding IOUPay - Adding Doku
2021/12/14	v13.28	Adding RPP DuitNow and Alipay+
2022/02/15	v13.29	- Renaming "Notification URL" to "Notify URL" - Rewrite sample code for skey validation
2022/02/22	v13.30	Adding LinePay TH
2022/03/11	v13.31	Adding Atome
2022/03/18	v13.32	Adding Token API
2022/04/11	v13.33	- Add channel status API - Revamp the request parameter and response of token API - Change the existing channel status API to channel success rate API
2022/04/26	v13.34	- Adding GCash - Adding Pace
2022/05/05	v13.35	Adding 9PAY
2022/05/19	v13.36	Adding waittime and cancelurl in request parameter Adding creditAN
2022/06/10	v13.37	- Adding note for direct status requery API - Changing the data type of token API
2022/07/25	v13.38	Adding creditAl
2022/08/09	v13.39	Adding Maya channel
2022/10/28	v13.40	Adding PromptPay RTP
2022/11/09	v13.41	Adding BPI Channel
2022/11/15	v13.42	Adding ESUN COD Family Mart
2023/01/25	v13.43	- Isolating extraP to a new section - Adding Void non-cash payment API
2023/02/15	v13.44	Adding hide_biller_info and hide_merchant_header_details in request parameter
	1	

2023/04/05	v13.45	- Change StatCode capture API from 22 to 23 to avoid confusion from "Pending" status code - Add description for MerchantAdviceCode & ProcessorCCVResponse at ExtraP		
2023/05/18	v13.46	- Adding ADD_TOKEN, EDIT_TOKEN_DETAILS action type into payment token API - Add new error code (33 , 34)		
2023/06/02	v13.46	- Add new error code Q00008 for PSQ API		
2023/06/13	v13.46	- Remove DOKU IB channels		
2023/06/26	v13.46	- Add ShopeePay for PH		
2023/06/28	v13.47	- Rectify the key used (verify_key) for Settlement Report API		
2023/07/11	v13.48	- Add Installment Channel HLB-MPGS, RHB-MPGS		
2023/07/13	v13.49	- Add new FPX Bank Of China - Change of hash string formula presentation		

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ISO References

Handling JSON/PLAIN TEXT using .NET

INTRODUCTION

Dealing with banks and multiple payment channels are time-consuming and it might cost you a lot of money. We also understand that it's a hassle for those non-technical people to integrate even one kind of online payment method into their existing website. Thus we consolidate all payment channels into one integration to reduce merchant's costs and effort, and to shorten your time-to-market.

Razer Merchant Services (RMS) is to help merchants, who sell online and offline, to reach out to the regional buyers, collecting payment and distributing funds, expanding rapidly to the Southeast Asia market. The service includes:

Front-end

- o RWD or responsive web design payment page for online buyer to checkout
- Secure 1-click payment using credit card tokenization technology, to ease the payment flow for returning purchase
- Bcard redemption and rewarding loyalty program for buyers
- Seamless integration to popup bank login page immediately
- In-page checkout similar to Stripe and airbnb checkout flow that can seamlessly integrated with merchant system
- Mobile XDK allows app developers to implement in-app payments
- Channel switching is available for same currency channels
- Razer Cash which allows over-the-counter (OTC) payment acceptance
- o Common shopping carts payment module, plugin, addon, or extension supported

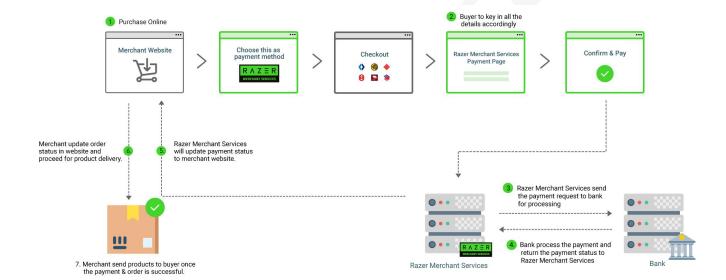
Back-end

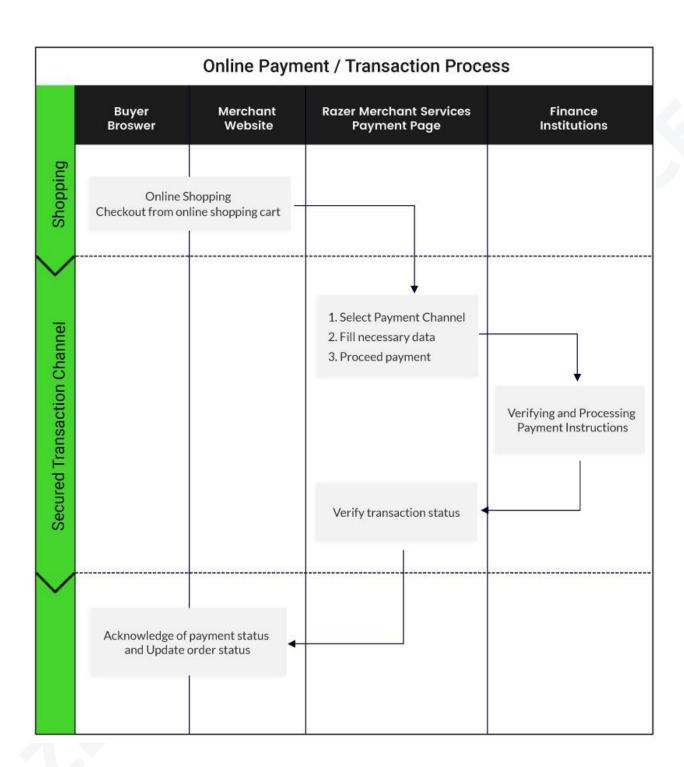
- Server-to-server Notification to ensure no missing status update
- o Callback to update merchant system on deferred status change
- Merchant can login to control panel to track payment status
- Scheduled report on daily/weekly/monthly basis to update merchant via email
- Real-time visualized reports

PAYMENT FLOW OVERVIEW

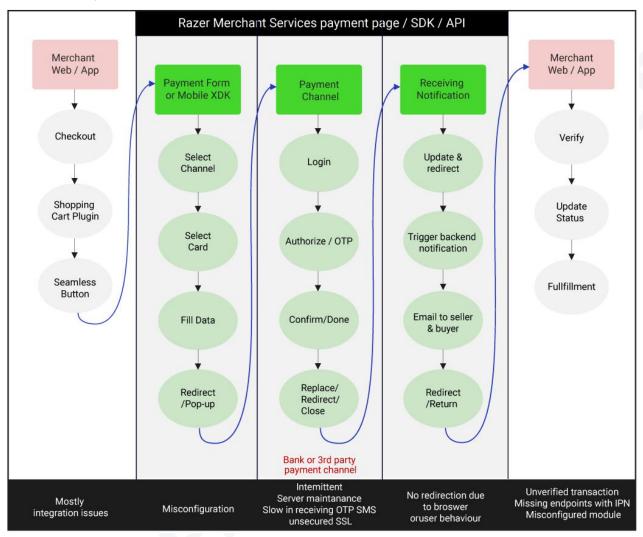
RMS provides hosted payment page service, so that merchants do not require costly and tech-savvy PCI-DSS compliance at merchant websites or systems. The integration is as simple as passing parameters via HTTPS **POST** or **GET** method from merchant to RMS payment page. Buyer will proceed their transaction on internet banking or any payment channel. Once completed, RMS will redirect the buyer's front-end back to the merchant system, using the POST method.

IPN (instant payment notification) or ACK from merchants could be implemented to confirm the receiving of payment status updates.





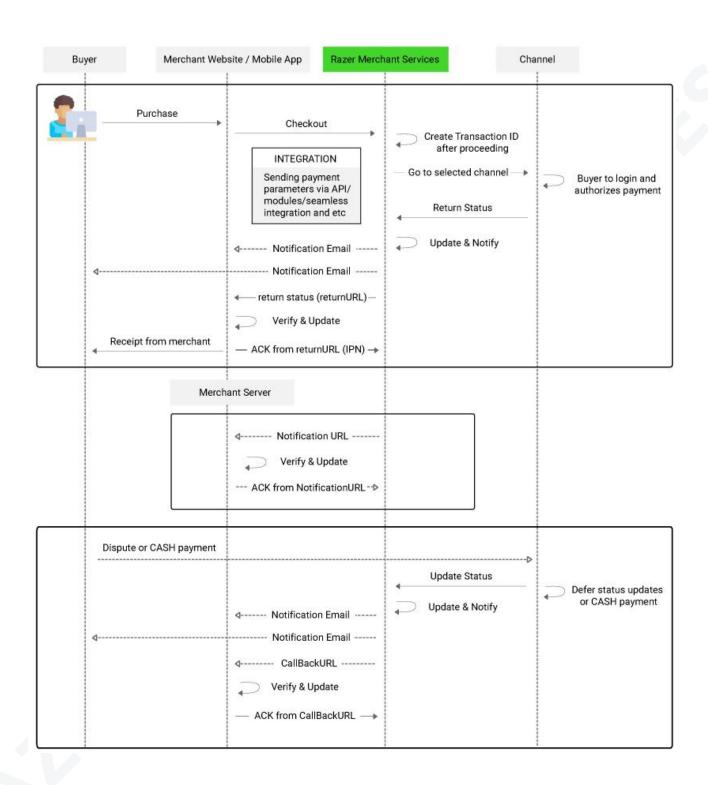
How to identify and report tech-related issues to RMS?



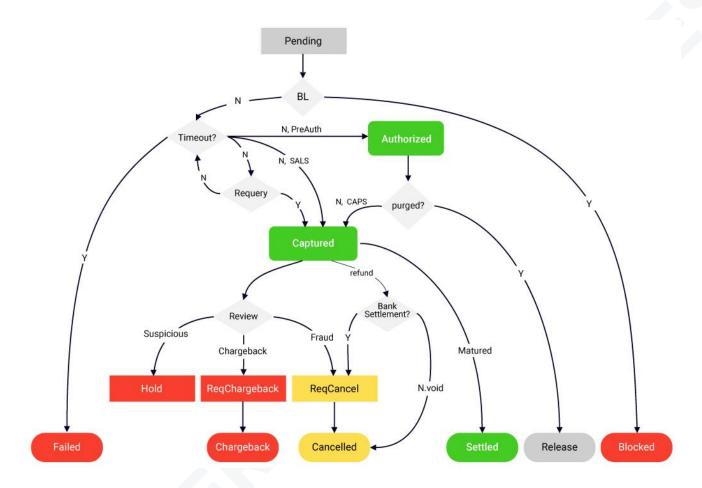
Merchant needs to prepare 3 simple and similar payment endpoint scripts to handle the payment notification from the payment gateway:

- Return URL: front-end or browser redirection notification, which are normally not a 100% reliable and robust channel due to unexpected network connectivity issue or client-side behavior, such as browser application crashes;
- Notify URL (webhook): a server-to-server back-end webhook which is more robust and crucial for payment status or order update;
- 3. **Callback URL (webhook)**: a special handler webhook to get notified on non-realtime payment status, such as "deferred status update", change of payment status, or Razer Cash, which is not a realtime payment naturally.

After the normal payment flow, merchants can always send payment status query requests, which is defined in **reQuery** APIs (a.k.a PSQ, Payment Status Query).



Razer Merchant Services Payment Status Flow



SECURITY & DATA INTEGRITY

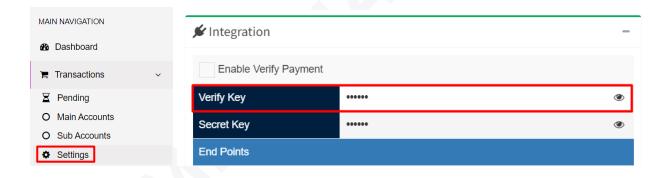
For online payment. The system uses "merchant ID", "Verify Key" and "Secret Key" to generate encrypted hash string to ensure data integrity in the payment process.

Verify Key [Confidential]

Verify Key is unique shared secret for RMS merchants to generate request to the payment gateway. It is a key or seed for generating one-time hash data, which are known as "vcode" (merchant's payment request to the gateway) or some of the "skey" (APIs' request from merchant to the gateway).

How to get the verify key?

- 1. Logon to RMS Merchant Portal website
- 2. Open up the "Transaction" drop down list in "MAIN NAVIGATION".
- 3. Clink on "Settings" option
- 4. "Verify Key" will be listed at "Integration" tab
- 5. Clink on Eye Icon to show the "Verify Key"



•••••• is Merchant's Verify Key provided by the payment gateway. Please make sure it is at least 32 characters. Merchant may request to change the key when necessary.

Secret Key [Top Secret]

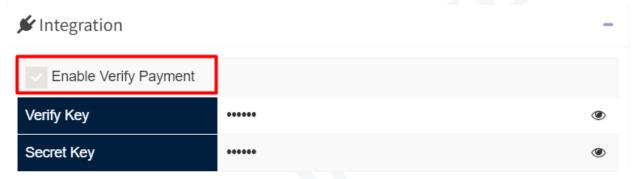
Secret Key is a unique shared secret for the payment gateway to generate responses to merchants. It is a key or seed for generating one-time hash data, which are known as "skey" (in the payment response) or some of the "VrfKey" (APIs' response from payment gateway). Merchant or developer MUST NOT disclose this secret key to the public. Once the key is suspected to be compromised, please contact RMS customer service immediately to reset the key.

Merchants who are using RMS mobile xdk **MUST** use different strings for "Verify Key" (treat it as public key) and "Secret Key" (treat it like private key), respectively. Contact RMS customer service to reset your keys whenever needed.

vcode (in payment request)

vcode is to ensure the data integrity passed from merchant-end (either website or mobile APP) to the payment page to avoid man-in-the-middle (MITM) attack. It uses "Verify Key" (like a public key) in combination with the data string for hashing purposes.

It becomes mandatory for each transaction if "Enable Verify Payment" is activated in merchant profile as shown:-



vcode was encrypted using MD5 encryption hash function and consists of the following information (must be set in the following orders):

- 1. Transaction amount
- 2. Merchant ID
- 3. Order ID
- 4. Verify Key

Extra characters/parameters which are **OPTIONAL**

To have these values calculated in the hash. Kindly reach out to our support to help enable it.

- 5. Currency
- 6. Channel

Formula to generate vcode

vcode = md5({amount}{merchantID}{orderID}{verify_key})

Example to generate *vcode* for PHP developer

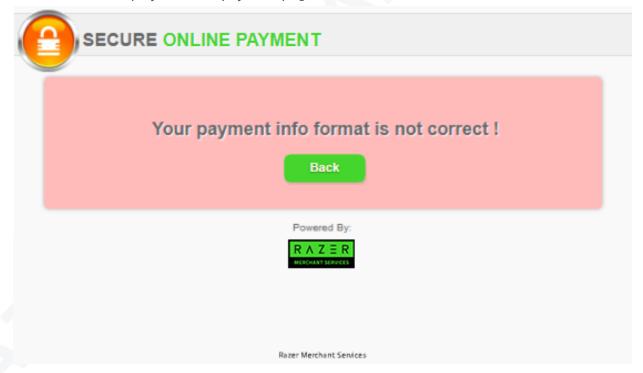


Verification tool for vcode

To verify whether the **vcode** generated is correct, merchant may check on this URL: https://api.merchant.razer.com/RMS/query/vcode.php

What happens if a merchant passes in an incorrect vcode?

An error will be displayed on the payment page as shown:-



skey (in payment response)

skey is a payment gateway generated returning hash string to ensure the payment result data integrity that passed to the merchant system. Merchants or developers **MUST** verify this hash string properly and compare the order ID, currency, amount, and also the payment date/time, to protect self interest from being cheated by a fraudster/hacker. It uses a "Secret Key" (like a private key) in combination with a data string for the hashing process.

Please note that there are other "**skey**" with different formulas in **Merchant Request APIs**' parameters. Try not to confuse yourself with this payment response "**skey**".

skey was encrypted twice using MD5 encryption hash function and consists of the following information (must be set in the following orders):

First hash string

- 1. Transaction ID
- 2. Order ID
- 3. Status
- 4. Merchant ID (domain)
- 5. Amount
- 6. Currency

Final hash string

- 1. Payment Date/Time
- 2. Merchant ID (domain)
- 3. First hash string
- 4. Approval Code
- 5. Secret Key

Formula to generate skey

pre_skey = md5({txnID}{orderID}{status}{merchantID}{amount}{currency})
skey = md5({paydate}{merchantID}{pre_skey}{appcode}{secret_key})

Example to generate skey for PHP developer

```
$\sec_key ="xxxxxxxxxx"; //Replace xxxxxxxxx with your Secret_Key

/**********************
*Don't change below parameters
**********************

$\text{tranID} = \s_POST['\text{tranID'}];
$\text{orderid} = \s_POST['\text{orderid'}];
$\text{status} = \s_POST['\text{status'}];
$\text{merchant} = \s_POST['\text{domain'}];
$\text{amount} = \s_POST['\text{amount'}];
```

```
$currency
                     $_POST['currency'];
$appcode
                     $_POST['appcode'];
$paydate
                     $_POST['paydate'];
$skey
                     $_POST['skey']; //Security hashstring returned by PG
/*********************
* To verify the data integrity sending by PG
$key0 = md5( $tranID.$orderid.$status.$merchant.$amount.$currency );
$key1 = md5( $paydate.$merchant.$key0.$appcode.$sec_key );
//key1 : Hashstring generated on Merchant system
// either $merchant or $domain could be one from POST
// and one that predefined internally
// by right both values should be identical
if( $skey === $key1 ){
// If matched, perform another extra checking before approved order
} elseif( $skey != $key1 ){
// If unmatched, reject the order or merchant might send query to
// PG using Merchant requery to double check payment status
// for that particular order.
} else {
// error or exception case
```

SIMULATION

Merchants should be provided a sandbox account or developer account from RMS, in order to simulate the payment flow for successful and failure transaction cases.

Please note that the sandbox account is for **SIT** purposes and only simulated credit card channel is available. **Sandbox** environment is solely for basic integration and validation purposes, **DO NOT** treat it as a grant for production environment testing and the configuration and implementation might be different. "**Dev**" account has a full range of production features for advanced integration and **UAT** purposes.

Sandbox Account

- Sandbox provides only simple simulation on card payment for merchant to test successful and failure cases based on algorithm (Luhn-10) and no actual transaction occurs between bank or payment gateway
- Many advanced features are not available in the sandbox environment
- Test card sample for Visa and Mastercard card number for testing:

Pattern	MasterCard	Visa
Positive Test	,	4111111111111111 (cvv: 111) 40128888888881881 (cvv: 111)
Negative Test	5555555555554440 (cvv: 444)	4111111111111110 (cvv: 111)

 Expiry date for credit card need to be valid (NOT expired) as of the current month and year.

Developer Account

For full feature integration and **UAT**, such as mobile xdk or seamless integration, please request "Developer" account or "Dev" account from RMS. These accounts are all set with a short period of lifespan for integration and testing purposes only. No settlement and mass payout is allowed in these accounts.

For real transactions conducted in a "Dev" account, please void or cancel the transaction on the same day. For Malaysian internet banking, only Maybank, CIMB Clicks, and FPX offers refund feature. You may request to turn on the channel if it is not enabled in your "Dev" account.

A "Dev" or developer account is always ended in "_Dev" and there will be no settlement (hence no payout) for this type of account. Please make sure that your "Dev" account has the same configuration in the production merchant profile to guarantee the expected test results.

PAYMENT APIS

Initiating Payment

Passing parameters to the payment gateway hosted payment page using POST/GET method via HTTPS or SSL connection will initiate a payment request from the merchant system.

REQUEST URL

Production: https://pay.merchant.razer.com/RMS/pay/{MerchantID}/{Payment_Method}

Sandbox: https://sandbox.merchant.razer.com/RMS/pay/{MerchantID}/{Payment_Method}

{MerchantID}: mandatory value to identify merchant;

{Payment_Method}: optional value to identify payment channel, only required when channel selection at hosted payment page is disabled upon request by email; Payment channel can be identified by using **channel filename**, or pass the **channel parameter** to **index.php** using GET/POST method.

The URL is an API to accept POST/GET parameters from the merchant site as well as the payment page for buyers. For merchants who use the POST method please include the " / " after { Merchant ID} on the URL.

WARNING: Loading the bank login page or authorization page into iframe is not recommended as most of the banks or channels will block all cross-origin requests and treat it as an XFS, XSS, and CSRF attack.

Channel Lists

Multi-Currency Payment

Default currency: -

Channel Name	filename	channel	Payable Amount Range	Extra Information
/isa / MasterCard	indexT.php	creditT	> 1.00	51 currencies supported AED, AUD, BND, BRL, CAI CHF, CNY, COP, CZK, DKK EGP, EUR, FJD, GBP, HKD HUF, IDR, ILS, INR, IQD, IRR, ISK, JPY, KRW, KWD LAK, LKR, MOP, MXN, MYR, NGN, NOK, NZD, PHP, PKR, PLN, QAR, RUB, SAR, SCR, SEK, SGL THB, TRY, TWD, USD, VND, ZAR, BDT, NPR, MMK
/isa / MasterCard	indexW.php	creditW	> 1.00	THB, USD
isa / Mastercard	indexAN.php	creditAN	> 1.00	MYR, SGD, PHP
Jnionpay Card	indexAN.php	creditAN	> 1.00	MYR
Jisa / Mastercard	indexAl.php	creditAl	> 1.00	AFN, DZD, ARS, AMD, AWG, AUD, AZN, BSD, BHD, THB, PAB, BBD, BYN, BZD, BMD, VES, BOB, BRL, BND, BGN, BIF, CAD, CVE, KYD, GHS, XOF, XAF, XPF, CLP, COP, KMF, CDF, BAM, NIO, CRC, HRK, CZK, GMD, DKK, MKD, DJF, STD, DOP, VND, XCD, EGP, SVC, ETB, EUR, FKP, FJD, HUF, GIP, HTG, PYG, GNF, GYD, HKD, UAH, ISK, INR, IRR, IQD, JMD, JOD, KES, PGK, LAK, EEK, KWD, MWK, AOA, MMK, GEL, LVL, LBP, ALL, HNL, SLL, LRD, LYD, SZL, LTL, LSL, MGA, MYR, TMT, MUR, MZN, MXN, MDL, MAD, NGN, ERN, NAD, NPR, ANG, ILS, RON, TWD, NZD, BTN, KPW, NOK, PEN, MRO, TOP, PKR, MOP, UYU, PHP, GBP, BWP, QAR, GTQ, ZAR, OMR, KHR, MVR, IDR, RUB, RWF, SHP, SAR, RSD, SCR, SGD, SBD, KGS, SOS, TJS, LKR, SDG, SRD, SEK, CHF,

			SYP, BDT, WST, TZS, KZT, TTD, MNT, TND, TRY, AED, UGX, CLF, USD, UZS, VUV, KRW, YER, JPY, CNY, ZMW, ZWL, PLN
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Malaysia

Default currency: MYR

Channel Name	channel filename	channel parameter	Payable Amount Range / Downtime*	Extra Information
Visa / MasterCard	index.php	credit	> 1.00	credit/debit/prepaid card
Visa / MasterCard	indexAB.php	creditAB	> 1.00	credit/debit/prepaid card
FPX B2C				
FPX B2C (all supported banks)	fpx.php	fpx	> 1.00	indirect internet banking
FPX B2C Bank Islam	BIMB.php	BIMB	> 1.00	indirect internet banking
FPX B2C Maybank	MB2U.php	MB2U	> 1.00 / 12am - 12:15am	indirect internet banking
FPX B2C Public Bank	PBB.php	PBB	> 1.00	indirect internet banking
FPX B2C CIMBClicks	CIMBCLICKS.php	CIMBCLICKS	> 1.00	indirect internet banking
FPX B2C AmOnline	AMOnline.php	AMOnline	> 1.00	indirect internet banking
FPX B2C Hong Leong	HLBConnect.php	HLBConnect	> 1.00	indirect internet banking
FPX B2C RHB Bank	RHBNow.php	RHBNow	> 1.00 / 12am - 12:10am	indirect internet banking
FPX B2C OCBC	FPX_OCBC.php	FPX_OCBC	> 1.00	indirect internet banking
FPX B2C Standard Chartered	FPX_SCB.php	FPX_SCB	> 1.00	indirect internet banking
FPX B2C Affin Bank	FPX_ABB.php	FPX_ABB	> 1.00	indirect internet banking
FPX B2C Bank Rakyat	bankrakyat.php	bankrakyat	> 1.00 / 12am - 12:30am	indirect internet banking
FPX B2C Bank Muamalat	bankmuamalat.php	bankmuamalat	> 1.00	indirect internet banking
FPX B2C Kuwait Finance House	FPX_KFH.php	FPX_KFH	> 1.00	indirect internet banking
FPX B2C Bank Simpanan Nasional	FPX_BSN.php	FPX_BSN	> 1.00 / 12am - 12:15am	indirect internet banking
FPX B2C Alliance Bank	FPX_ABMB.php	FPX_ABMB	> 1.00	indirect internet banking
FPX B2C United Overseas Bank	FPX_UOB.php	FPX_UOB	> 1.00	indirect internet banking

FPX B2C HSBC Bank	FPX_HSBC.php	FPX_HSBC	> 1.00	indirect internet banking
FPX B2C Agrobank	FPX_AGROBANK.php	FPX_AGROBANK	> 1.00	Indirect internet banking
FPX B2C Bank Of China	FPX_BOCM.php	FPX_BOCM	> 1.00	Indirect internet banking
DUITNOW OBW				
DuitNow OBW - Affin Bank	RPP_RTP_ABB.php	RPP_RTP_ABB	> 1.00	Indirect internet banking
DuitNow OBW - Alliance Bank	RPP_RTP_ABMB.php	RPP_RTP_ABMB	> 1.00	Indirect internet banking
DuitNow OBW - Agrobank	RPP_RTP_AGROBAN K.php	RPP_RTP_AGROB ANK	> 1.00	Indirect internet banking
DuitNow OBW - AmBank	RPP_RTP_AMB.php	RPP_RTP_AMB	> 1.00	Indirect internet banking
DuitNow OBW - CIMB Bank	RPP_RTP_CIMBCLICK S.php	RPP_RTP_CIMBC LICKS	> 1.00	Indirect internet banking
DuitNow OBW - Bank Islam	RPP_RTP_BIMB.php	RPP_RTP_BIMB	> 1.00	Indirect internet banking
DuitNow OBW - Bank Rakyat	RPP_RTP_BKRM.php	RPP_RTP_BKRM	> 1.00	Indirect internet banking
DuitNow OBW - Bank Muamalat	RPP_RTP_BMMB.php	RPP_RTP_BMMB	> 1.00	Indirect internet banking
DuitNow OBW - Bank Simpanan Nasional	RPP_RTP_BSN.php	RPP_RTP_BSN	> 1.00	Indirect internet banking
DuitNow OBW - Hong Leong	RPP_RTP_HLB.php	RPP_RTP_HLB	> 1.00	Indirect internet banking
DuitNow OBW - HSBC Bank	RPP_RTP_HSBC.php	RPP_RTP_HSBC	> 1.00	Indirect internet banking
DuitNow OBW - Kuwait Finance House	RPP_RTP_KFH.php	RPP_RTP_KFH	> 1.00	Indirect internet banking
DuitNow OBW - Maybank	RPP_RTP_MB2U.php	RPP_RTP_MB2U	> 1.00	Indirect internet banking
DuitNow OBW - OCBC	RPP_RTP_OCBC.php	RPP_RTP_OCBC	> 1.00	Indirect internet banking
DuitNow OBW - Public Bank	RPP_RTP_PBB.php	RPP_RTP_PBB	> 1.00	Indirect internet banking
DuitNow OBW - RHB Bank	RPP_RTP_RHB.php	RPP_RTP_RHB	> 1.00	Indirect internet banking
DuitNow OBW - Standard Chartered	RPP_RTP_SCB.php	RPP_RTP_SCB	> 1.00	Indirect internet banking
DuitNow OBW - United Overseas Bank	RPP_RTP_UOB.php	RPP_RTP_UOB	> 1.00	Indirect internet banking

DuitNow OBW - Bank Of China	RPP_RTP_BOCM.php	RPP_RTP_BOCM	> 1.00	Indirect internet banking
FPX B2B				
FPX B2B AmBank	FPX_B2B_AMB.php	FPX_B2B_AMB	2.00 - 1mil / 12am - 2am	indirect internet banking
FPX B2B Hong Leong	FPX_B2B_HLB.php	FPX_B2B_HLB	2.00 - 1mil	indirect internet banking
FPX B2B United Overseas Bank	FPX_B2B_UOB.php	FPX_B2B_UOB	2.00 - 1mil	indirect internet banking
FPX B2B Affin Bank	FPX_B2B_ABB.php .php	FPX_B2B_ABB	2.00 - 1mil	indirect internet banking
FPX B2B CIMB Bank	FPX_B2B_CIMB.php	FPX_B2B_CIMB	2.00 - 1mil	indirect internet banking
FPX B2B Bank Islam	FPX_B2B_BIMB.php	FPX_B2B_BIMB	2.00 - 1mil / 11pm - 7am	indirect internet banking
FPX B2B Public Bank	FPX_B2B_PBB.php	FPX_B2B_PBB	2.00 - 1mil	indirect internet banking
FPX B2B RHB Bank	FPX_B2B_RHB.php	FPX_B2B_RHB	2.00 - 1mil / 12am - 12:15am	indirect internet banking
FPX B2B HSBC	FPX_B2B_HSBC.php	FPX_B2B_HSBC	2.00 - 1mil	indirect internet banking
FPX B2B Maybank2E	FPX_M2E.php	FPX_M2E	2.00 - 1mil / 12am - 1 am	indirect internet banking
FPX B2B BNP Paribas	FPX_B2B_BNP.php	FPX_B2B_BNP	2.00 - 1mil / 5pm - 8.45am	indirect internet banking
FPX B2B Affin Max	FPX_B2B_ABBM.php	FPX_B2B_ABBM	2.00 - 1mil	indirect internet banking
FPX B2B Citibank	FPX_B2B_CITIBANK.p hp	FPX_B2B_CITIBA NK	2.00 - 1mil	indirect internet banking
FPX B2B i-bizRAKYAT	FPX_B2B_BKRM.php	FPX_B2B_BKRM	2.00 - 1mil	indirect internet banking
FPX B2B Public Bank Enterprise	FPX_B2B_PBBE.php	FPX_B2B_PBBE	2.00 - 1mil	indirect internet banking
FPX B2B UOB Regional	FPX_B2B_UOBR.php	FPX_B2B_U0BR	2.00 - 1mil	indirect internet banking
FPX B2B Agrobank	FPX_B2B_AGROBANK .php	FPX_B2B_AGROB ANK	2.00- 1mil	Indirect internet banking
FPX B2C DirectDebit e-Mandate	FPX_EMANDATE.php	FPX_EMANDATE	> 1.00 Maximum authorized installment amount but always debit MYR 1.00 upon enrollment and this will be fully refunded	direct debit enrollment
FPX DirectDebit e-Mandate	FPX_EMANDATE_AB B.php	FPX_EMANDATE_ ABB	> 1.00	direct debit enrollment

			Maximum authorized installment amount but always debit MYR 1.00 upon enrollment and this will be fully refunded	
DuitNow				
DuitNow QR	RPP_DuitNowQR.php	RPP_DuitNowQR	> 1.00	DuitNow QR payment
Wallet				
Razer Pay	RazerPay.php	RazerPay	> 1.00	e-wallet
Razer Gold	MOLPoints.php	MOLPoints	> 1.00	e-wallet
Touch N' Go E-WALLET	TNG-EWALLET.php	TNG-EWALLET	> 1.00	e-wallet
BOOST	BOOST.php	BOOST	> 1.00	e-wallet
GrabPay	GrabPay.php	GrabPay	> 1.00	e-wallet
Maybank QRPay	MB2U_QRPay-Push.p	MB2U_QRPay-Pus h	> 1.00	e-wallet
ShopeePay	ShopeePay.php	ShopeePay	> 1.00	e-wallet
отс				
Razer Cash via 7E	cash.php	cash	> 1.00	OTC @ 7-Eleven
JomPay ATM 9282	jompay.php	jompay	> 1.00	ATM bill payment
CIMB Virtual Account	CIMB-VA.php	CIMB-VA	> 1.00	CIMB Clicks / ATM transfer for CIMB customers only
Razer Cash via 99	cash99.php	cash99	> 1.00	OTC @ 99 Speedmart
Razer Cash via KK	cashkkmart.php	cashkkmart	> 1.00	OTC @ KK Mart
Installment for card				
MBB-eBPG-(PD or PW) EzyPay	MBB-EzyPay.php	MBB-EzyPay	Non-installment > 1.00 Installment: 3 mon: 200 - 1000 6 mon: 500 - 15,000 12 mon: 500 - 15,000 24 mon: 2,500 - 15,000	MBB card installment V/M card payment
PBB-ZIIP	installmentPBB-ZIIP.p hp	PBB-ZIIP	non-installment > 1.00 installment > 500.00	PBB card installment V/M card payment
CIMB-eBPG	indexL.php	creditL	non-installment > 1.00 installment > 500.00	CIMB card installment V/M card payment
AMBANK-eBP-PD	indexU.php	creditU	non-installment > 1.00 installment > 500.00	AMB card installment V/M card payment

AMBANK-eBP-PW	AMBANK-eBPG-PW.p	AMBANK-eBPG-P W	non-installment > 1.00 installment > 500.00	AMB card installment V/M card payment
HSBC-MIGS-PW	HSBC-MIGS-PW.php	HSBC-MIGS-PW	> 1.00	HSBC card installment V/M card payment
SCB-MGIS-PW	SCB-MGIS-PW.php	SCB-MGIS-PW	> 1.00	SCB card installment V/M card payment
HLB-MPGS	indexAE.php	creditAE	Installment: 3 mon: > 500 6 mon: > 1,000 12 mon: > 1,200	HLB card installment V/M card payment
RHB-MPGS	indexAH.php	creditAH	Installment: 3 mon: > 500 6 mon: > 1,000 12 mon: > 1,200 18 mon: > 1,500 24 mon: > 1,500 36 mon: > 2,000	RHB card installment V/M card payment
Buy Now Pay Later				
IOUPay-PW	IOUPay-PW.php	IOUPay-PW	Installment 50 - 10,000	V/M card payment

^{*} Downtime is for reference only

Remarks

- 1. Secure 1-click or credit card tokenization function can be enabled in the merchant profile to ease next purchase on the same merchant system.
- 2. Board loyalty reward points for successful transactions can be activated in the merchant profile. (Obsoleted)
- 3. For certain Razer Cash channels, such as 7-eleven and epay, round to the nearest 0 or 5 cents and convenience store fee applied. Buyer will see the "Payable Amount", but RMS still returns the amount passed from the merchant system.

Singapore

Default currency: SGD

Channel Name	filename	channel	Payable Amount Range	Extra Information
eNETS Debit	enetsD.php	enetsD	> 5.00	indirect internet banking
SAM by SingPost	singpost.php	singpost	> 5.00	bank card / ATM
AXS	AXS.php	AXS	> 5.00	bank card / ATM
Wallet				
Razer Pay	RazerPay.php	RazerPay	> 1.00	e-wallet
PayNow	PayNow.php	PayNow	>1.00	Online banking/e-wallet

Singapore

Default currency: SGD, MYR, USD

Channel Name	filename	channel	Payable Amount Range	Extra Information
Wallet				
Crypto tripleA	Crypto_tripleA.ph p	Crypto_tripleA	No min and max amount	Crypto e-wallet

Default currency: SGD, MYR, PHP, THB

Channel Name	filename	channel	Payable Amount Range	Extra Information
Buy Now Pay Later				
Atome	Atome.php	Atome	>10.00	V/M card payment
Pace	pace.php	pace	>1.00	V/M card payment

Indonesia

Default currency: IDR

Channel Name	filename	channel	Payable Amount Range	Extra Information
Artajasa	Artajasa.php	Artajasa	> 10,000.00	отс
ATM Network Transfer Virtual Account (VA)	ATMVA.php	ATMVA	> 10,000.00 <= 10,000,000.00	cardless ATM
DOKU Permata Virtual Account (VA)	DK_PERMATA_VA .php	DK_PERMATA _VA	> 10,000.00 <= 25,000,000.00	ОТС

DOKU Alfa Virtual Account (VA)	DK_ALFA.php	DK_ALFA	> 10,000.00 <= 2,500,000.00	отс
DOKU Indomaret Virtual Account (VA)	DK_Indomaret,ph p	DK_Indomaret	> 10,000.00 <= 5,000,000.00	отс
DOKU Danamon Virtual Account (VA)	DK_Danamon_VA.	DK_Danamon _VA	> 10,000.00 <= 25,000,000.00	ОТС
DOKU Mandiri Virtual Account (VA)	DK_Mandiri_VA.p hp	DK_Mandiri_V A	> 10,000.00 <= 25,000,000.00	ОТС
DOKU CIMB Niaga Virtual Account (VA)	DK_CIMBNiaga_V A.php	DK_CIMBNiag a_VA	> 10,000.00 <= 25,000,000.00	отс
DOKU BCA Virtual Account (VA)	DK_BCA_VA.php	DK_BCA_VA	> 10,000.00 <= 25,000,000.00	ОТС
DOKU BRI Virtual Account (VA)	DK_BRI_VA.php	DK_BRI_VA	> 10,000.00 <= 25,000,000.00	ОТС
DOKU BNI Virtual Account (VA)	DK_BNI_VA.php	DK_BNI_VA	> 10,000.00 <= 25,000,000.00	ОТС
DOKU Maybank Virtual Account (VA)	DK_Maybank_VA. php	DK_Maybank_ VA	> 10,000.00 <= 25,000,000.00	ОТС
DOKU Artajasa Virtual Account (VA)	DK_Artajasa_VA.p hp	DK_Artajasa_ VA	> 10,000.00 <= 25,000,000.00	отс
Alipay+ DANA	AlipayPlus_DANA. php	AlipayPlus_D ANA	>1.00	e-Wallet (MYR only)

China

Default currency: USD/MYR/SGD (for merchant), RMB/CNY/MYR/SGD/USD (for buyer)

Channel Name	filename	channel	Payable Amount Range (Processing currency)	Extra Information
Alipay 支付宝	alipay.php	alipay	> MYR1.00 (MYR/USD/SGD/RMB/CNY)	e-wallet (CN)
UnionPay 银联	GUPOP.php	GUPOP	> MYR1.00 (MYR/USD/CNY/AUD/CAD/EUR/ GBP/HKD/IDR/JPY/NZD/PHP/ SGD/THB/TWD/VND)	bank card
WeChat Pay 微信支付	WeChatPay.php	WeChatPay	> MYR1.00 (USD)	e-wallet (CN)
Alipay+	AlipayPlus.php	AlipayPlus	> MYR1.00	e-wallet

Remarks

^{1.} Due to China Central Bank regulations, CNY(or RMB) is not able to be settled to an overseas bank account, these channels will use USD as default settlement currency. Besides USD, RMS can also settle MYR, SGD via Alipay as well and RMS will convert it to equivalent amount of settlement currency based on Maybank daily FX rate.

Thailand

Default currency: THB

Channel Name	filename	channel	Payable Amount Range	Extra Information
Bank of Ayudhya (Krungsri)	BAY_IB_U.php	BAY_IB_U	> 1.00	direct internet banking (fees on buyer)
Bangkok Bank	BBL_IB_U.php	BBL_IB_U	> 1.00	direct internet banking (fees on buyer)
Krung Thai Bank	KTB_IB_U.php	KTB_IB_U	> 1.00	direct internet banking (fees on buyer)
Tesco Lotus & Big Central	Cash-TH.php	Cash-TH	> 1.00	отс
Kasikornbank PAYPLUS	KBANK_PayPlus. php	KBANK_PayPl	> 1.00	direct internet banking (fees on buyer)
Siam Commercial Bank	SCB_IB_U.php	SCB_IB_U	> 1.00	direct internet banking (fees on buyer)
Prompt Pay Request to Pay	KBANK_RTP.php	KBANK_RTP	> 1.00	Request to pay
Wallet				
Kbank Promptpay QR	KBANK_THQR_Pa yment.php	KBANK_THQR _Payment	> 1.00	Direct internet banking & e-wallet
LinePay	LinePay.php	LINEPAY	> 0.01	eWallet

Vietnam

Default currency: VND

Channel Name	filename	channel	Payable Amount Range	Extra Information
Bank Transfer via 9Pay	9PAY_BANKTRAN SFER.php	9PAY_BANKT RANSFER	> 10,000.00	Online Banking
Debit Card via 9Pay	9PAY_DEBITCARD .php	9PAY_DEBITC ARD	> 2,000.00	bank card / ATM
Wallet				
NganLuong	nganluong.php	nganluong	> 2,000.00	e-wallet
VTC Pay	vtcpay.php	vtcpay	> 1,000.00	e-wallet
9Pay e-wallet	9PAY_EWALLET.p hp	9PAY_EWALL ET	> 4,000.00	e-wallet

Philippines

Default currency: PHP

Channel Name	filename	channel	Payable Amount Range	Extra Information
Dragonpay	dragonpay.php	dragonpay	> 50.00	indirect internet banking / cash
Razer Cash PH	cashph.php	cashph	> 100	OTC @ Razer Cash PH
GCash	GCash.php	GCash	<100,000	e-Wallet
Alipay+ GCash	AlipayPlus_GCash .php	AlipayPlus_G CASH	> 1.00	e-Wallet (MYR only)
Bank of the Philippine Islands (BPI)	BPI.php	BPI	> 1.00	Internet Banking
PayMaya	PayMaya.php	PayMaya	> 1.00	Credit card
Wallet				
PayMaya e-wallet	PayMaya-eWallet. php	PayMaya-eWa llet	> 1.00	e-Wallet
ShopeePay	ShopeePay.php	ShopeePay	> 1.00	e-Wallet
GrabPay	GrabPay.php	GrabPay	> 1.00	e-Wallet

Taiwan

Default currency: TWD

Channel Name	filename	channel	Payable Amount Range	Extra Information
ESUN Cash-711	ESUN_Cash711.php	ESUN_Cash711	>= 1.00	отс
ESUN Cash FamilyMart	ESUN_CashFamilyMart.php	ESUN_CashFamilyMart	>= 1.00	отс
ESUN ATM	ESUN_ATM.php	ESUN_ATM	>= 1.00	Virtual Account
ESUN Cash Hi-Life	ESUN_CashHiLife.php	ESUN_CashHiLife	>= 1.00	ОТС
ESUN COD Family Mart	ESUN_CODFamilyMart.php	ESUN_CODFamilyMart	>= 1.00	ОТС

Payment Page Integration

This is the traditional integration method which will send the buyer information to the payment gateway hosted payment page. You may want to explore *seamless integration*, *Direct Server API*, *mobile xdk* or supported shopping cart payment modules for better user experience beside this hosted payment page integration on github repositories. Recurring API is also available for card payment and DirectDebit.

Request Parameters

These parameters can be passed using either POST or GET method, or mixed of these methods. Please use UTF-8 encoding for all values.

Variable /	Type Format / Max Length	Description / Example
merchant_id	optional, alphanumeric	Merchant ID provided and it is on the request URL, otherwise need to pass this as parameter
amount	mandatory, integer or up to 2 decimal points numeric value	The total amount to be paid in one purchase order. Configurable to lock this field (Read-only). E.g. 500, 168.99, comma(,) is not allowed
orderid	mandatory, alphanumeric up to 32 characters	Invoice or order number from merchant system. Can be set to Read-only field. E.g. BH2018-09rev
bill_name	mandatory, alphanumeric, 128 chars	Buyer's full name. (Please do not pass in dummy data if you want to use the saved cards feature, as this info will be used to identify the ownership of the card's token. If you need to use dummy data, kindly refer to guest_checkout.)
bill_email	mandatory, email, 128 chars	Buyer's email address. Must be a valid email. (Please do not pass in dummy data if you want to use the saved cards feature, as this info will be used to identify the ownership of the card's token. If you need to use dummy data, kindly refer to guest_checkout.)
bill_mobile	mandatory, alphanumeric, 32 chars	Buyer's mobile number or contact number. Must be a valid mobile number. (Please do not pass in dummy data if you want to use the saved cards feature, as this info will be used to identify the ownership of the card's token. If you need to use dummy data, kindly refer to guest_checkout.)
guest_checkout	conditional, 0 or 1	Used to indicate that this checkout does not belong to a registered user. Equal to 0 by default and 1 if the merchant does not hold the customer's bill_name, bill_email or bill_mobile. Saved card payment will disabled if set as 1.
bill_desc	mandatory, alphanumeric, 64kB	Purchase itemized list or order description. Try to avoid special characters so that the payment request is not blocked by the web application firewall. For Taiwan channels please refer to Guideline for Taiwan channels.
b_addr1	optional, mandatory for specific channel	Billing address line 1

b_addr2	optional, mandatory for specific channel	Billing address line 2
b_zipcode	optional, mandatory for specific channel	Billing address zipcode or postcode
b_city	optional, mandatory for specific channel	Billing address city
b_state	optional, mandatory for specific channel	Billing address state
country	optional, 2 chars of ISO-3166 country code (Alpha-2)	Buyer's country E.g. MY for Malaysia.
vcode	conditional if accept open amount or order payment, such as virtual terminal is optional otherwise is mandatory. 32 chars hexadecimal string	This is the data integrity protection hash string. Refer vcode section for details.
currency	mandatory, 3 chars ISO-4217 currency code	Default payment currency from merchant site. E.g. MYR, USD, EUR, AUD, SGD, CNY, IDR
channel	optional, predefined string. Refer to the channel column in the Channel Lists.	Default payment page will be displayed without channel specified.
langcode	optional, predefined string. Currently only <i>en</i> for English & <i>cn</i> for Simplified Chinese.	Default language, i.e. English, will be displayed without the langcode specified.
returnurl	optional, URL	For selected merchants only. Used for multiple return URLs. This will slow down your payment request.
callbackurl	optional, URL	Used for both multiple callback URL and Notify URL.
cancelurl	optional, URL	Buyer will redirect to this URL if the buyer clicks the "Cancel" button to abandon payment before proceeding. No transaction will be created.
s_name	optional, mandatory for specific channel	Receiver name
s_addr1	optional, mandatory for specific channel	Delivery address line 1
s_addr2	optional, mandatory for specific channel	Delivery address line 2
s_zipcode	optional, mandatory for specific channel	Delivery destination zipcode
s_city	optional, mandatory for specific channel	Delivery destination city
s_state	optional, mandatory for specific channel	Delivery destination state
s_country	optional, mandatory for specific channel	Delivery destination country
s_merchantID	conditional for partner	Partner's sub-merchant MID
s_merchantURL	conditional for partner	Partner's sub-merchant URL
s_merchantMCC	conditional for partner	Partner's sub-merchant MCC
is_escrow	optional, for escrow payment	Set the value to 1 to indicate this is an escrow payment. Escrow transactions also can be set after the transaction has been created using escrow API.
non_3DS	conditional for partner, 0 or 1	Applicable to card processing via specific processor using specific currency for pre-approved partners only Equal to 0 by default and 1 for non-3DS transaction

tcctype	optional, for card type transaction	Available value is: SALS = Capture Transaction (Default) AUTH = Authorize Transaction (Please inform RMS before starting using pre-auth)
token	optional	Token value for 1-click payment to show the selected card
installmonth	optional, mandatory for installment payment	Total month of installment. E.g: 0, 3, 6, 12, 24
cash_waittime	optional, integer	To overwrite the allowed waiting time for cash payment in hour(s), values greater than "Payment Expiry Time" in merchant profile will be capped.
split_info	optional, alphanumeric with pipe () as data delimiter and comma (,) as recipient separator	Used for "Alipay Split Payment". Format as below without '<' and '>':- <submer_id> <amount>, <submer_id> <amount></amount></submer_id></amount></submer_id>
AppDeeplink	optional, URL	Mobile deeplink/universal link that allows e-wallet In-App payment.
waittime	optional, integer	When the payment page will be expired in second(s)
hide_biller_info	optional, 0 or 1, default=0	To hide biller info (Biller Name, Biller Email, Biller Email) from payment form, equal to 0 by default. (Biller info is still required to pass if the payment is not guest_checkout.)
hide_merchant_head er_details	optional, 0 or 1, default=0	To hide merchant info at the payment form header section, equal to 0 by default.

Examples

Using PHP to generate a GET payment request

```
echo "<a href=https://pay.merchant.razer.com/RMS/pay/{merchantID}/?";
echo "amount=".$amount."&";
echo "orderid=".urlencode($oid)."&";
echo "bill_name=".urlencode($name)."&";
echo "bill_email=".urlencode($email)."&";
echo "bill_mobile=".urlencode($mobile)."&";
echo "bill_desc=".urlencode($description)."&";
echo "country=".$country."&";
echo "vcode=".$vcode."> Pay Now </a>";

?>
```

Using PHP to generate a POST form payment request

<?PHP

```
echo "<form action='https://pay.merchant.razer.com/RMS/pay/{merchantID}/' method=POST >";
echo "<input type=hidden
                            name=amount
                                                         value='$amount'>";
echo "<input type=hidden
                            name=orderid
                                                   value='$oid'>";
echo "<input type=hidden
                            name=bill_name
                                                value='$name'>";
echo "<input type=hidden
                            name=bill_email
                                                value='$email'>";
echo "<input type=hidden
                            name=bill_mobile
                                                value='$mobile'>;
echo "<input type=hidden
                            name=bill_desc
                                                value='$description'>";
echo "<input type=hidden
                            name=country
                                                   value='$country'>";
echo "<input type=hidden
                            name=vcode
                                                         value='$vcode'>";
echo "<input type=submit
                                       value=' PAY NOW '>";
echo "</form>";
```

Using ASP to generate a GET payment request

```
dim amount, orderid, name, email, mobile, desc, country, vcode
amount = "18.99"
orderid= "DG873MH370"
        = "Mr Albert Anderson"
name
email
        = "a.anderson@somewhere.com"
mobile = "016-2341234"
desc
        = "DIGI Reload Coupon RM20 with discount"
country= "MY"
        vcode
// REPLACE xxxxxxxxxxx with Verify Key
response.write("<a href=https://pay.merchant.razer.com/RMS/pay/{merchantID}/?")
response.write("amount=" & amount)
response.write("&orderid=" & orderid)
response.write("&bill_name=" & name)
response.write("&bill_email=" & email)
response.write("&bill_mobile=" & mobile)
response.write("&bill_desc=" & desc)
response.write("&country=" & country)
response.write("&vcode=" & vcode)
response.write("'> Pay Now </a>")
```

Using ASP to generate a POST form payment request

```
dim amount, orderid, name, email, mobile, desc, country, vcode
amount = "28.99"
orderid= "DG873MH37o"
name
        = "Mr Samuel Lim"
email
        = "sam.lim@nowhere.com"
mobile
        = "86-232389872"
        = "Facebook Prepaid Reload Coupon RM30 with discount"
desc
country= "CN"
        vcode
// REPLACE xxxxxxxxxxx with Verify Key
response.write("<form action='https://pay.merchant.razer.com/RMS/pay/{merchantID}/' method=POST >)
```

```
response.write("<input type=hidden name=amount value="&amount&">)
response.write("<input type=hidden name=orderid value="&orderid&">)
response.write("<input type=hidden name=bill_name value="&name&">)
response.write("<input type=hidden name=bill_email value="&email&">)
response.write("<input type=hidden name=bill_mobile value="&mobile&">)
response.write("<input type=hidden name=bill_desc value="&desc&">)
response.write("<input type=hidden name=country value="&country&">)
response.write("<input type=hidden name=country value="&country&">)
response.write("<input type=hidden name=vcode value="&vcode&">)
response.write("<input type=submit value=' PAY NOW'">)
response.write("<input type=submit value=' PAY NOW'">)
response.write("</form>")
```

Getting Payment Result

Payment results will be returned to the merchant system once payment is done or the user abandons the payment process. HTTP POST is the only method that payment gateway returns all parameters to a merchant's return URL for real-time status update, which the merchant can configure in merchant admin. Merchant system should block all other methods or parameters from an untrusted source.

Response Parameters

| Variable /
Parameter | Type Format / Max Length | Description / Example |
|-------------------------|---------------------------------------|---|
| amount | 2 decimal points numeric value | The total amount paid or to be paid in Razer Cash payment request. |
| orderid | alphanumeric, 32 characters | Invoice or order number from merchant system. |
| tranID | integer, 10 digits | Unique transaction ID for tracking purpose. |
| domain | alphanumeric, 32 chars | Merchant ID in RMS PG system. |
| status | string in 2-digit numeric | 00 for Successful payment, 11 for failed status, 22 if pending. |
| appcode | alphanumeric, 16 chars | Bank approval code. Mandatory for card payment.
Certain channels return empty value. |
| error_code | alphanumeric | Refer to the Error Codes section. |
| error_desc | text | Error message or description. |
| skey | 32 chars hexadecimal string | This is the data integrity protection hash string. Refer skey section for details. |
| currency | 2 or 3 chars (ISO-4217) currency code | Default currency is MYR (indicating Malaysia Ringgit) for Malaysia channels. |
| channel | predefined string in PG system | Channel references for the merchant system. Refer to the below table. |
| paydate | Date/Time(YYYY-MM-DD HH:mm:ss) | Date/Time of the transaction. |
| extraP* | optional (on request) | Refer to section ExtraP for all the available values to be responded |

Value of "channel" in return URL

| Card / Wallet | |
|--------------------------|--|
| Malaysia & International | |

| Credit/Debit/Prepaid card
(Visa/MasterCard)
Credit | Point BCard
Point-BCard | PayPal
PayPal | |
|--|--|--|--|
| Razer Gold - Pay with Razer (PWR)
MOLPoints | Webcash
WEBCASH | Boost
BOOST | |
| WeChat Pay MY (Online)
WeChatPayMY | WeChat Pay MY (Offline)
WeChatPayMY-Offline | GrabPay
GrabPay | |
| Maybank QRPay
MB2U_QRPay-Push | Touch N' Go E-WALLET
TNG-EWALLET | ShopeePay
ShopeePay | |
| DuitNow QR
RPP_DuitNowQR | | | |
| | <u>Indonesia</u> | | |
| Alipay+ DANA
AlipayPlus_DANA | | | |
| | <u>China</u> | | |
| Alipay (Online)
Alipay | WeChat Pay (Online)
WeChatPay | WeChat Pay (Offline)
WeChatPay-Offline | |
| Alipay+
AlipayPlus | | | |
| | <u>Thailand</u> | | |
| Paysbuy
paysbuy | Kbank Promptpay QR
KBANK_THQR_PAYMENT | | |
| | <u>Vietnam</u> | | |
| Nganluong
NGANLUONG | VTC-Pay
VTC-Pay | VTC Pay eWallet
VTCP_EW | |
| VTC Pay eWallet & Banks
VTCP_EWB | VTC Pay eWallet & Credit Cards VTCP_EWC | 9Pay eWallet
9PAY_EWALLET | |
| 9Pay Debit Card
9PAY_DEBITCARD | | | |
| | <u>Philippines</u> | | |
| GCash
GCash | Alipay+ GCash
AlipayPlus_GCASH | ShopeePay
ShopeePay | |
| Indirect / Direct Internet Banking | | | |
| <u>Malaysia</u> | | | |
| FPX
FPX | Maybank2u
FPX_MB2U / MB2u | CIMB Clicks
FPX_CIMBCLICKS / CIMB-Clicks | |
| RHB Now
FPX_RHB / RHB-ONL | PBe
FPX_PBB / PBeBank | Hong Leong Connect / PEx+
FPX_HLB / HLB-ONL / PEXPLUS | |
| Bank Islam
FPX_BIMB | AmOnline
FPX_AMB / AMB-W2W | Alliance online
FPX_ABMB / ALB-ONL | |

| Affin Online
FPX_ABB / Affin-EPG | i-Muamalat
FPX_BMMB | i-Rakyat
FPX_BKRM | |
|---|--|--|--|
| myBSN
FPX_BSN | OCBC Online
FPX_OCBC | UOB Online
FPX_UOB | |
| HSBC Online
FPX_HSBC | Standard Chartered Online
FPX_SCB | KFH Online
FPX_KFH | |
| Bank Of China Online
FPX_BOCM | FPX B2B Model
FPX_B2B | FPX B2B Hong Leong FPX_B2B_HLB | |
| FPX B2B AmBank
FPX_B2B_AMB | FPX B2B Affin Bank
FPX_B2B_ABB | FPX B2B HSBC
FPX_B2B_HSBC | |
| FPX B2B United Overseas Bank
FPX_B2B_UOB | FPX B2B CIMB Bank
FPX_B2B_CIMB | FPX B2B Bank Islam
FPX_B2B_BIMB | |
| FPX B2B Maybank2E
FPX_M2E | FPX B2B Public Bank
FPX_B2B_PBB | FPX B2B Kuwait Finance House
FPX_B2B_KFH | |
| FPX B2B RHB Bank
FPX_B2B_RHB | FPX B2B Alliance Bank
FPX_B2B_ABMB | FPX B2B Standard Chartered
FPX_B2B_SCB | |
| FPX B2B Deutsche Bank FPX_B2B_DEUTSCHE | FPX B2B Bank Muamalat
FPX_B2B_BMMB | FPX e-Mandate FPX_EMANDATE | |
| FPX B2B OCBC
FPX_B2B_OCBC | Agrobank
FPX_AGROBANK | FPX B2B Agrobank
FPX_B2B_AGROBANK | |
| FPX DirectDebit FPX_DIRECTDEBIT | FPX B2B Citibank
FPX_B2B_CITIBANK | FPX B2B i-bizRAKYAT
FPX_B2B_BKRM | |
| FPX B2B Affin Max
FPX_B2B_ABBM | FPX B2B UOB Regional
FPX_B2B_UOBR | FPX e-Mandate FPX_EMANDATE_ABB | |
| FPX B2B Public Bank Enterprise FPX_B2B_PBBE | FPX DirectDebit FPX_DIRECTDEBIT_ABB | | |
| | | | |
| | Singapore | | |
| eNets Debit
eNets-D | eNets Debit DBS Bank
eNets-D_DBS | eNets Debit Standard Chartered Bank
eNets-D_SCB | |
| eNets Debit United Overseas Bank
eNets-D_UOB | eNets Debit OCBC Bank
eNets-D_OCBC | | |
| <u>Philippines</u> | | | |
| DragonPay
Dragonpay | Bank of the Philippine Islands (BPI) | | |
| <u>Thailand</u> | | | |
| Bangkok Bank
BBL_IB & BBL_IB_U | Bank of Ayudhya (Krungsri)
BAY_IB_U | Krung Thai Bank
KTB_IB & KTB_IB_U | |
| Siam Commercial Bank
SCB_IB_U | OMISE
OMISE | PromptPay Request to Pay KBANK_RTP | |

| | <u>Vietnam</u> | | |
|--|---|---|--|
| VTC Pay Banks
VTCP_B | VTC Pay - Vietcombank
VTCP_Vietcombank | VTC Pay - Techcombank
VTCP_Techcombank | |
| VTC Pay - MB
VTCP_MB | VTC Pay - Vietinbank
VTCP_Vietinbank | VTC Pay - Agribank
VTCP_Agribank | |
| VTC Pay - DongABank
VTCP_DongABank | VTC Pay - Oceanbank
VTCP_Oceanbank | VTC Pay - BIDV
VTCP_BIDV | |
| VTC Pay - SHB
VTCP_SHB | VTC Pay - VIB
VTCP_VIB | VTC Pay - MaritimeBank VTCP_MaritimeBank | |
| VTC Pay - Eximbank
VTCP_Eximbank | VTC Pay - ACB
VTCP_ACB | VTC Pay - HDBank
VTCP_HDBank | |
| VTC Pay - NamABank
VTCP_NamABank | VTC Pay - SaigonBank
VTCP_SaigonBank | VTC Pay - Sacombank
VTCP_Sacombank | |
| VTC Pay - VietABank
VTCP_VietABank | VTC Pay - VPBank
VTCP_VPBank | VTC Pay - TienPhongBank VTCP_TienPhongBank | |
| VTC Pay - SeaABank
VTCP_SeaABank | VTC Pay - PGBank
VTCP_PGBank | VTC Pay - Navibank
VTCP_Navibank | |
| VTC Pay - GPBank
VTCP_GPBank | VTC Pay - BACABANK
VTCP_BACABANK | VTC Pay - PHUONGDONG
VTCP_PHUONGDONG | |
| VTC Pay - ABBANK
VTCP_ABBANK | VTC Pay - LienVietPostBank VTCP_LVPB | VTC Pay - BVB
VTCP_BVB | |
| 9Pay Bank Transfer
9PAY_BANKTRANSFER | | | |
| | <u>China</u> | | |
| Union Pay
UPOP | | | |
| | Kiosk / Over-the-Counter / Cash / Bill Pa | ayment | |
| | <u>Malaysia</u> | | |
| 7-Eleven
Cash-711 | 99SpeedMart
Cash-99SM | Maybank ATM
Cash-MBBATM | |
| Jompay
jompay | Cash-in to PG
Cash-Deposit | | |
| | CIMB Virtual Account
CIMB-VA | | |
| <u>Singapore</u> | | | |
| SingPost ATM
Cash-SAM | AXS Kiosk
AXS | | |
| <u>Indonesia</u> | | | |
| ATM Transfer via Permata Bank
ATMVA | Artajasa
Artajasa | DOKU Danamon Virtual Account (VA) DK_Danamon_VA | |

| DOKU Alfa Virtual Account (VA) DK_ALFA | DOKU Indomaret Virtual Account (VA) DK_Indomaret | DOKU BCA Virtual Account (VA) DK_BCA_VA | |
|--|--|---|--|
| DOKU Mandiri Virtual Account (VA)
DK_Mandiri_VA | DOKU CIMB Niaga Virtual Account (VA) DK_CIMBNiaga_VA | DOKU Maybank Virtual Account (VA) DK_Maybank_VA | |
| DOKU BRI Virtual Account (VA) DK_BRI_VA | DOKU BNI Virtual Account (VA) DK_BNI_VA | DOKU Permata Virtual Account (VA) DK_PERMATA_VA | |
| DOKU Artajasa Virtual Account (VA)
DK_Artajasa_VA | | | |
| | <u>Philippines</u> | | |
| DragonPay
Dragonpay | Bank of the Philippine Islands (BPI) | | |
| Razer Cash PH
Cash-PH | | | |
| | <u>Thailand</u> | | |
| Tesco Lotus
Cash-TH | | | |
| Big Central
Cash-TH | | | |
| | <u>Taiwan</u> | | |
| FamilyMart 全家便利商店
FAMILYMART | | | |
| | Buy Now Pay Later | | |
| | Malaysia | | |
| IOUPay
IOUPay-PW | | | |
| Singapore | | | |
| Atome
Atome | | | |
| Pace pace | | | |
| + Observal in well and to the management | 1 1 . 1 | | |

^{*} Channel in yellow text means obsoleted

Merchant is strongly recommended to implement IPN(instant payment notification) in order to acknowledge(**ACK**) on the receiving of payment status from the payment gateway. There are 2 ways to implement IPN. Please refer to the IPN section for details.

Examples of Payment Endpoint

You may use the sample for all 3 endpoints, i.e. Return URL, Notify URL, and Callback URL by making little modification based on your own requirements.

Sample return URL script for PHP

```
<?php
/*********
*Don't change below parameters
********************************/
$tranID =
                  $_POST['tranID'];
$orderid =
                  $_POST['orderid'];
$status =
                  $_POST['status'];
                  $_POST['domain'];
$domain =
$amount =
                  $_POST['amount'];
                           $_POST['currency'];
$currency
$appcode
                           $_POST['appcode'];
                           $_POST['paydate'];
$paydate
                           $_POST['skey'];
$skey
/********************
* To verify the data integrity sending by PG
$key0 = md5( $tranID.$orderid.$status.$domain.$amount.$currency );
$key1 = md5( $paydate.$domain.$key0.$appcode.$sec_key );
if( $skey != $key1 ) $status= -1; // Invalid transaction.
// Merchant might issue a requery to PG to double check payment status
if ($status == "00") {
if ( check_cart_amt($orderid, $amount) ) {
/*** NOTE: this is a user-defined function which should be prepared by merchant ***/
// action to change cart status or to accept order
// you can also do further checking on the paydate as well
// write your script here .....
// failure action. Write your script here .....
// Merchant might send query to PG using Merchant requery
// to double check payment status for that particular order.
// Merchant is recommended to implement IPN once received the payment status
// regardless the status to acknowledge the PG
```

```
<!--#include file="md5.asp"--> 'For ASP Developer
<!--#include file="md5.aspx"--> 'For ASP.NET Developer
' md5.asp/md5.aspx is a 3rd party developed md5 solution for ASP/ASP.NET user
You could get the md5.asp/md5.aspx from support-sa@razer.com
'Some variables below are coming from POST method
dim key0, key1, tranID, orderid, status, merchantID, amount, currency, paydate, appcode, skey
tranID
         = Request.Form("tranID")
orderid = Request.Form("orderid")
         = Request.Form("status")
status
merchantID
                   = Request.Form("domain")
amount = Request.Form("amount")
currency = Request.Form("currency")
paydate = Request.Form("paydate")
appcode = Request.Form("appcode")
                   = Request.Form("skey")
skey
key0
                   = md5( tranID & orderid & status & domain & amount & currency )
                   = md5( paydate & merchantID & key0 & appcode & "xxxxxxxxxxxx")
key1
'Replace xxxxxxxxxxx with Secret_Key
invalid transaction if the key is different. Merchant might issue a requery to PG to double check payment status
If skey <> key1 then
status= -1
End if
If status = "00" then
' checking the validity of cart amount & orderid.
'if the verification test passed then can update the order status to paid.
'you can also do further checking on the paydate as well
Else
' Merchant might send query to PG using merchant requery
' to double check payment status for that particular order.
'Merchant is to implement IPN to ack on receiving of payment status
regardless the payment status
```

Payment Status Notification (Merchant Webhook or the 3 Endpoints)

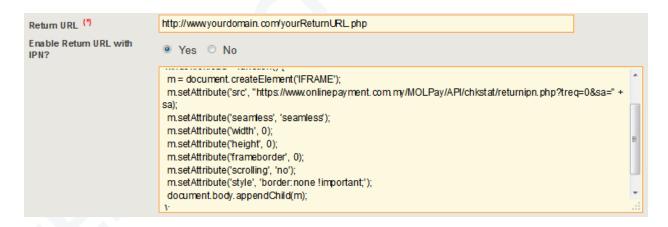
WARNING: Please note that multiple payment notifications (either from *return URL*, *Notify URL* or *callback URL*) for a single transaction is possible but this does not mean that the buyer has paid twice or multiple times.

Return URL with IPN (Instant Payment Notification)

For normal payment flow, the buyer browser is being redirected to a hosted payment page, financial institution or channel page(if any), and then returned to the merchant website or system. Users might close the browser any time throughout the payment process, even if the payment is completed, successfully or failed. Another possible reason that rarely happens is the network connectivity issue. As a result, the payment gateway is unable to update the merchant system on the payment status. Therefore, merchants are recommended to implement IPN to acknowledge(ACK) upon the receiving of status from gateway. Otherwise the callback worker will resend the payment status within a time interval.

Implementation:

Step 1: Logon to merchant admin, choose "Yes" to "Enable Return URL with IPN", as shown:-



Step 2: There are 2 approaches to ack on receiving payment status.

Simple front-end snippet: copy the Javascript (JS) code from merchant admin and paste
it on the merchant receipt page (which shows payment success/failed), preferable in the
HTML header, before </head> tag.

 Advanced back-end scripting: merchant is to echo back all the POST variables with one additional variable, i.e. "treq" with value 1. PHP sample code is provided below.
 URL: https://pay.merchant.razer.com/RMS/API/chkstat/returnipn.php

Step 3: Merchant to prepare a **Notify URL** and **Callback URL** script, which is similar to return URL script but serves at the backend, in order to receive consequent payment notification in case the merchant system misses the first notification attempt from the payment gateway.

Example of back-end IPN script for PHP (combined with return URL script)

```
<?php
$sec_key ="xxxxxxxxxxx"; //Replace xxxxxxxxxx with Secret_Key
$_POST[treq] = 1; // Additional parameter for IPN
// Value always 1. Do not change this value.
                 $_POST['tranID'];
$tranID =
Sorderid =
                  $_POST['orderid'];
                  $_POST['status'];
$status =
$domain =
                  $_POST['domain'];
                  $_POST['amount'];
Samount =
$currency
                           $_POST['currency'];
$appcode
                           $_POST['appcode'];
$paydate
                           $_POST['paydate'];
$skey
                           $_POST['skey'];
/*******************
* Snippet code in purple color is the enhancement required
* by merchant to add into their return script in order to
* implement backend acknowledge method for IPN
*************************************
while ( list(\$k,\$v) = each(\$\_POST) ) {
$postData[]= $k."=".$v;
$postdata
                  = implode("&",$postData);
$url
                  = "https://pay.merchant.razer.com/RMS/API/chkstat/returnipn.php";
                  = curl_init();
$ch
curl_setopt($ch, CURLOPT_POST
curl_setopt($ch, CURLOPT_POSTFIELDS
                                             , $postdata );
curl_setopt($ch, CURLOPT_URL
                                             , $url
curl_setopt($ch, CURLOPT_HEADER
                                            , TRUE
curl_setopt($ch, CURLINFO_HEADER_OUT
curl_setopt($ch, CURLOPT_RETURNTRANSFER
                                            , 1
                                             , FALSE
curl_setopt($ch, CURLOPT_SSL_VERIFYPEER
curl_setopt($ch, CURLOPT_SSLVERSION
                                             , 6
                                                      ); // use only TLSv1.2
$result = curl_exec( $ch );
curl_close( $ch );
/********************
* To verify the data integrity sending by PG
$key0 = md5( $tranID.$orderid.$status.$domain.$amount.$currency );
$key1 = md5( $paydate.$domain.$key0.$appcode.$sec_key );
if( $skey != $key1 ) $status= -1; // Invalid transaction
if ($status == "00") {
if (check_cart_amt($orderid, $amount)) {
 // write your script here .....
} else {
// failure action
```

Notify URL with IPN

Direct payment status notification is a back-end instant update mechanism that sends over the payment status notification from gateway directly to the merchant server or system, without relying on any user agent such as web browser or mobile application.

Notify URL script is similar to return URL script but no output is required for front-end user interface. This is also known as background URL.

Implementation:

Step 1: Login to merchant admin and go to merchant profile, fill in the Notify URL. Notify URL with IPN can be activated for better merchant-payment system communication. Choose "Yes" to "Enable Notify URL with IPN", as shown:-



Step 2: Merchant to prepare a Notify URL script, which is similar to return URL script.

Step 3: If IPN is disable please ignore this step. Merchants have to echo back all the POST variables with one additional variable, i.e. "treq" with value 1. PHP sample code is provided below.

URL: https://pay.merchant.razer.com/RMS/API/chkstat/returnipn.php

Notification Parameters (via POST method)

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------------|---|
| nbcb | 1 digit numeric | Always equal to 2 , which indicates this is a notification from PG |
| amount | 2 decimal points numeric value | The total amount paid or to be paid for Razer Cash payment request |
| orderid | alphanumeric, 32 characters | Invoice or order number from merchant system |
| tranID | integer, 10 digits | Unique transaction ID for tracking purpose |
| domain | alphanumeric, 32 chars | Merchant ID in PG system |
| status | 2-digit numeric value | 00 for Successful payment
11 for failed status |
| appcode | alphanumeric, 16 chars | Bank approval code. Mandatory for card payment.
Certain channels return empty value. |

| error_code | alphanumeric | Refer to the Error Codes section. |
|------------|---------------------------------------|--|
| error_desc | text | Error message or description. |
| skey | 32 chars hexadecimal string | This is the data integrity protection hash string.
Refer <i>skey</i> section for details. |
| currency | 2 or 3 chars (ISO-4217) currency code | Default currency is MYR (indicating Malaysia
Ringgit) for Malaysia channels |
| channel | predefined string in system | Channel references for merchant system |
| paydate | Date/Time(YYYY-MM-DD HH:mm:ss) | Date/Time of the transaction. |
| extraP* | optional (on request) | Refer to section ExtraP for all the available values to be responded |

*Note: Values are not URL encoded

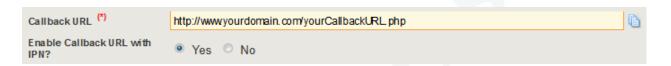
```
$sec_key ="xxxxxxxxxxx"; //Replace xxxxxxxxxx with Secret_Key
$_POST[treq] = 1; // Additional parameter for IPN. Value always set to 1.
*Don't change below parameters
********************************/
                  $_POST['nbcb'];
Snbcb
$tranID =
                  $_POST['tranID'];
$orderid =
                  $_POST['orderid'];
$status =
                  $_POST['status'];
$domain =
                  $_POST['domain'];
$amount =
                  $_POST['amount'];
                           $_POST['currency'];
$currency
$appcode
                           $_POST['appcode'];
                           $_POST['paydate'];
$paydate
$skey
                           $_POST['skey'];
/**********************
* Snippet code in purple color is the enhancement required
* by merchant to add into their notification script in order to
* implement backend acknowledge method for IPN
while ( list($k,$v) = each($_POST) ) {
 $postData[]= $k."=".$v;
$postdata
                  = implode("&",$postData);
$url
                  = "https://pay.merchant.razer.com/RMS/API/chkstat/returnipn.php";
$ch
                  = curl_init();
curl_setopt($ch, CURLOPT_POST
curl_setopt($ch, CURLOPT_POSTFIELDS
                                                      , $postdata ):
curl_setopt($ch, CURLOPT_URL
                                                     , $url );
curl_setopt($ch, CURLOPT_HEADER
                                                     , 1
curl_setopt($ch, CURLINFO_HEADER_OUT
                                                      , TRUE );
curl_setopt($ch, CURLOPT_RETURNTRANSFER
                                                     , 1
                                                            );
curl_setopt($ch, CURLOPT_SSL_VERIFYPEER
                                                     , FALSE);
                                                          ); // use only TLSv1.2
curl_setopt($ch, CURLOPT_SSLVERSION
$result = curl_exec( $ch );
curl_close( $ch );
/**********************
* To verify the data integrity sending by PG
$key0 = md5( $tranID.$orderid.$status.$domain.$amount.$currency );
$key1 = md5( $paydate.$domain.$key0.$appcode.$sec_key );
if( $skey != $key1 ) $status= -1; // Invalid transaction
if ($status == "00") {
if ( check_cart_amt($orderid, $amount) ) {
 // write your script here .....
} else {
// failure action
```

Callback URL with IPN

Callback mechanism is a back-end activity that is initiated by payment gateway to notify the merchant system once there are changes on any payment status.

Callback URL script is similar to return URL script. Both handle the payment status result; Unlike the return URL script, callback URL script is to handle defer status update or all other non-realtime payment status updates, such as Razer Cash payment.

Merchant must fill the Callback URL in merchant admin in order to get those non-realtime status update from the gateway. Callback URL IPN can be activated for better merchant-payment system communication. Instead of returning all parameters from the gateway, merchant's callback script just need to echo "CBTOKEN:MPSTATOK", in plaintext, without double quotes or any HTML tags.



Merchant can actually use the same script for both callback URL & return URL, because there is only one extra parameter in callback request, in addition to return URL parameters, which is "nbcb". Besides, an additional status code, 22 has been introduced for "pending" transaction status.

Once there is a status changed event, payment gateway will POST the following parameters to mechant callback URL. If the payment gateway could not get the actual ACK message from the merchant, it will retry for a maximum 3 times, of 15 minutes interval for each attempt.

Callback Parameters (via POST method)

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------------|--|
| nbcb | 1 digit numeric | Always equal to 1, which indicates this is a callback notification from PG |
| amount | 2 decimal points numeric value | The total amount paid or to be paid for Razer Cash payment request |
| orderid | alphanumeric, 32 characters | Invoice or order number from merchant system. |
| tranID | integer, 10 digits | Unique transaction ID for tracking purpose |
| domain | alphanumeric, 32 chars | Merchant ID in PG system |
| status | 2-digit numeric value | 00 for Successful payment
11 for failed status |
| appcode | alphanumeric, 16 chars | Bank approval code. Mandatory for card payment.
Certain channel returns empty value |

| error_code | alphanumeric | Refer to the Error Codes section |
|------------|---|---|
| error_desc | text | Error message or description |
| skey | 32 chars hexadecimal string | This is the data integrity protection hash string.
Refer <i>skey</i> section for details |
| currency | 2 or 3 chars (ISO-4217) currency code | Default currency is MYR (indicating Malaysia
Ringgit) for Malaysia channels |
| channel | predefined string in system | Channel references for merchant system |
| paydate | Date/Time(YYYY-MM-DD HH:mm:ss) | Date/Time of the transaction |
| extraP* | optional (on request)
- for credit channel | Refer to section ExtraP for all the available values to be responded |

*Note: Values are not URL encoded

Example of callback URL script for PHP

```
$sec_key ="xxxxxxxxxxx"; //Replace xxxxxxxxxx with Secret_Key
$nbcb
                   $_POST['nbcb'];
StranID =
                   $_POST['tranID'];
Sorderid =
                   $_POST['orderid'];
$status =
                   $_POST['status'];
$domain =
                   $_POST['domain'];
$amount =
                   $_POST['amount'];
                             $_POST['currency'];
$currency
                             $_POST['appcode'];
$appcode
                   $_POST['paydate'];
$paydate =
                   $_POST['skey'];
$skey
/*******************
* To verify the data integrity sending by PG
$key0 = md5( $tranID.$orderid.$status.$domain.$amount.$currency );
$key1 = md5( $paydate.$domain.$key0.$appcode.$sec_key );
if( $skey != $key1 ) $status= -1; // Invalid transaction
if ( $status == "00" ) {
  if ( check_cart_amt($orderid, $amount) ) {
  // write your script here .....
} else {
 // failure action
 // write your script here .....
if ($nbcb==1) {
 //callback IPN feedback to notified PG
 echo "CBTOKEN:MPSTATOK"; exit;
 //normal IPN and redirection
```

Value of "channel" in notification and callback URL

| Card / Wallet | | | |
|--|--|---|--|
| Malaysia & International | | | |
| Credit/Debit/Prepaid card
(Visa/MasterCard)
credit | Point BCard
Point-BCard | PayPal
paypal | |
| Razer zGold - Pay with Razer (PWR)
MOLPoints | Webcash
webcash | Boost
BOOST | |
| WeChat Pay MY (Online)
WeChatPayMY | WeChat Pay MY (Offline)
WeChatPayMY-Offline | GrabPay
GrabPay | |
| Maybank QRPay
MB2U_QRPay-Push | Touch N' Go E-WALLET
TNG-EWALLET | ShopeePay
ShopeePay | |
| DuitNow QR
RPP_DuitNowQR | | | |
| | <u>Indonesia</u> | | |
| Alipay+ DANA
AlipayPlus_DANA | | | |
| | <u>China</u> | | |
| Alipay (Online)
alipay | WeChat Pay (Online)
WeChatPay | WeChat Pay (Offline)
WeChatPay-Offline | |
| Alipay+
AlipayPlus | | | |
| | <u>Thailand</u> | | |
| Paysbuy
paysbuy | Kbank Promptpay QR KBANK_THQR_PAYMENT | | |
| | <u>Vietnam</u> | | |
| Nganluong
nganluong | VTC-Pay
VTCPay | VTC Pay eWallet
VTCP_EW | |
| VTC Pay eWallet & Banks
VTCPay-eWalletBank | VTC Pay eWallet & Credit Cards
VTCPay-eWalletCreditCard | 9Pay eWallet
9PAY_EWALLET | |
| 9Pay Debit Card
9PAY_DEBITCARD | | | |
| <u>Philippines</u> | | | |
| GCash
GCash | Alipay+ GCash
AlipayPlus_GCASH | ShopeePay
ShopeePay | |
| Indirect / Direct Internet Banking | | | |
| <u>Malaysia</u> | | | |

| FPX
fpx | Maybank2u
maybank2u / maybank2u | CIMB Clicks
cimb / cimb | |
|--|---|--|--|
| RHB Now
rhb / rhb | PBe
publicbank / publicbank | Hong Leong Connect / PEx+
hlb / hlb / PEXPLUS | |
| Bank Islam
bankislam | AmOnline
amb / amb | Alliance online
alliancebank / alliancebank | |
| Affin Online
abb / affin-epg | i-Muamalat
muamalat | i-Rakyat
bkrm | |
| myBSN
bsn | OCBC Online | UOB Online
uob | |
| HSBC Online
hsbc | Standard Chartered Online
scb | KFH Online
kuwait-finace | |
| Bank Of China Online
bocm | FPX B2B Model
FPX_B2B | FPX B2B Hong Leong
FPX_B2B_HLB | |
| FPX B2B AmBank
FPX_B2B_AMB | | FPX B2B HSBC FPX B2B HSBC | |
| FPX B2B United Overseas Bank
FPX_B2B_UOB | FPX B2B Affin Bank FPX_B2B_ABB | FPX_B2B_BIMB | |
| FPX_M2E | FPX B2B CIMB Bank
FPX_B2B_CIMB | FPX B2B Kuwait Finance House
FPX_B2B_KFH | |
| FPX B2B RHB Bank
FPX_B2B_RHB | FPX B2B Public Bank FPX_B2B_PBB | FPX B2B Standard Chartered
FPX_B2B_SCB | |
| FPX B2B Deutsche Bank FPX_B2B_DEUTSCHE | FPX B2B Alliance Bank FPX_B2B_ABMB | FPX e-Mandate FPX_EMANDATE | |
| FPX B2B OCBC
FPX_B2B_OCBC | FPX B2B Bank Muamalat
FPX_B2B_BMMB | FPX DirectDebit FPX_DIRECTDEBIT_ABB | |
| FPX DirectDebit FPX_DIRECTDEBIT | FPX e-Mandate FPX_EMANDATE_ABB | | |
| | Singapore | | |
| eNets Debit
enetsD | | | |
| | <u>Philippines</u> | | |
| Bank of the Philippine Islands (BPI) | | | |
| | <u>Thailand</u> | | |
| Bangkok Bank
TH_BBLPN / BBL_IB & BBL_IB_U | Bank of Ayudhya (Krungsri)
TH_BAYPN / BAY_IB_U | Krung Thai Bank
TH_KTBPN / KTB_IB & KTB_IB_U | |
| Siam Commercial Bank TH_SCBPN | OMISE
OMISE | | |
| <u>Vietnam</u> | | | |

| VTC Pay Banks | VTC Pay - Vietcombank | VTC Pay - Techcombank |
|---|---|---|
| VTCPay-Bank | VTCPay-Vietcombank | VTCPay-Techcombank |
| VTC Pay - MB
VTCPay-MB | VTC Pay - Vietinbank
VTCPay-Vietinbank | VTC Pay - Agribank
VTCPay-Agribank |
| VTC Pay - DongABank
VTCPay-DongABank | VTC Pay - Oceanbank
VTCPay-Oceanbank | VTC Pay - BIDV
VTCPay-BIDV |
| VTC Pay - SHB
VTCPay-SHB | VTC Pay - VIB
VTCPay-VIB | VTC Pay - MaritimeBank
VTCPay-MaritimeBank |
| VTC Pay - Eximbank
VTCPay-Eximbank | VTC Pay - ACB
VTCPay-ACB | VTC Pay - HDBank
VTCPay-HDBank |
| VTC Pay - NamABank
VTCPay-NamABank | VTC Pay - SaigonBank
VTCPay-SaigonBank | VTC Pay - Sacombank
VTCPay-Sacombank |
| VTC Pay - VietABank
VTCPay-VietABank | VTC Pay - VPBank
VTCPay-VPBank | VTC Pay - TienPhongBank
VTCPay-TienPhongBank |
| VTC Pay - SeaABank
VTCPay-SeaABank | VTC Pay - PGBank
VTCPay-PGBank | VTC Pay - Navibank
VTCPay-Navibank |
| VTC Pay - GPBank
VTCPay-GPBank | VTC Pay - BACABANK
VTCPay-BACABANK | VTC Pay - PHUONGDONG
VTCPay-PHUONGDONG |
| VTC Pay - ABBANK
VTCPay-ABBANK | VTC Pay - LienVietPostBank
VTCPay-LienVietPostBank | VTC Pay - BVB
VTCPay-BVB |
| 9Pay Bank Transfer
9PAY_BANKTRANSFER | | |
| | China | |
| Union Pay
unionpay | | |
| | <u>Australia</u> | |
| POLi Payment polipayment | | |
| | Kiosk / Over-the-Counter / Cash / Bill Payı | nent |
| | <u>Malaysia</u> | |
| 7-Eleven cash | 99SpeedMart cash99 | Petronas
epay |
| Esapay Cash Retail
esapay | Cash-in to PG
Cash-Deposit | Maybank ATM
Cash-MBBATM |
| Jompay jompay | CIMB Virtual Account
CIMB-VA | |
| | <u>Singapore</u> | • |
| SingPost ATM | AXS Kiosk | |

| <u>Indonesia</u> | | | | |
|--|-----------------------------|--|--|--|
| ATM Transfer via Permata Bank
ATMVA | Artajasa
Artajasa | | | |
| | <u>Philippines</u> | | | |
| DragonPay
dragonpay | | | | |
| | <u>Thailand</u> | | | |
| Tesco Lotus
Cash-TH | Big Central
BigC | | | |
| | <u>Taiwan</u> | | | |
| FamilyMart 全家便利商店
FAMILYMART | | | | |
| Buy Now Pay Later | | | | |
| | <u>Malaysia</u> | | | |
| IOUPay
IOUPay-PW | | | | |
| <u>Singapore</u> | | | | |
| Atome
Atome | | | | |
| Pace pace | | | | |

^{*} Channel in yellow text means the channel had been obsoleted

TL;DR?

SUMMARY ON INTEGRATION, 3 ENDPOINTS AND IPN

INTEGRATION

- 1) Hosted payment page or normal integration: HTTP POST/GET with all required parameters, either to default payment channel page or to specific channel page, merchant can allow or disallow the buyer to change payment method (PDF)
- 2) Seamless Integration: popup page or lightbox on merchant checkout flow, as simple as modifying the JavaScript snippet that could be found on <u>GitHub</u>
- 3) Mobile xdk: support variety of mobile development platforms and available on GitHub
- 4) Direct Server API: server-to-server request that allows merchant to handle all the UI/UX with higher flexibility and controllability (PDF)
- 5) Recurring API: server-to-server request that allows merchant initiated transaction (MIT) to debit buyer account anytime (PDF)
- 6) Offline Payment API: For in-store e-wallet payment acceptance on POS/terminal (PDF)
- 7) ISO Message Interface: For card acceptance terminal vendor (restricted PDF)

3 ENDPOINTS for payment response notification (For integration 1-6 only)

- 1) Return URL: realtime web browser or frontend direction endpoint for hosted page, seamless integration, and shopping cart module
- 2) Notify URL (webhook): real-time server-to-server or backend endpoint for all kind of integrations
- 3) Callback URL (webhook): defer update or callback endpoint on non-real time payment such as Razer Cash

IPN

- 1) **Frontend** IPN, applicable to return URL endpoint only: using JavaScript, you may copy from the snippet code from your merchant portal, note that **treq=0**
- 2) **Backend** IPN for return URL and Notify URL: post back all parameters with additional parameter **treg=1** to **returnipn.php**
- 3) IPN for callback URL: just echo "CBTOKEN:MPSTATOK", without the quote(")

Comparison Chart

For **online** payment, merchant to decide which approaches fit the business requirements

| Integration approach | Hosted payment page | Seamless
integration | Inpage
checkout | Mobile xdk | Direct server
AFI + CSE | Recurring API |
|-----------------------------|------------------------------|----------------------------|--|-----------------------------------|----------------------------------|----------------------------------|
| Browser
dependency | Yes, popup and redirection | Yes, popup and redirection | Yes, iframe,
popup and
redirection | Smartphone
built-in
browser | Depends | No |
| UI/UX | Moderate | Better | Better | Best for
mobile | Handled by merchant | Handled by merchant |
| Time to market
(man-day) | 1-7 | 2-14 | 2-14 | 2-14 | 5-60 | 10-90 |
| Suitable for | Fast and easy deployment | Better UX | Better UX | In-app
purchase | Better UI & UX | Subscription or billing |
| Mobile
readiness | RWD | RWD | RWD | Native /
hybrid | Backend only | Backend only |
| PCI-DSS compliant | PG | PG | PG | PG | PG / Merchant
if handling PAN | PG / Merchant
if handling PAN |
| Availability on github | 20/22 of the cart
modules | 6/22 of the cart modules | Yes | 12 dev-tools supported | nil | nil |
| Available endpoints | all 3 endpoints | all 3 endpoints | all 3 endpoints | notification & callback URL | all 3 endpoints | notification & callback URL |
| Fraud screening | By PG | By PG | By PG | By PG | By merchant | By merchant |

For response handling, setup these endpoints(webhook) to capture the payment response

| Response endpoint | Return URL | Notify URL | Caliback URL |
|-----------------------|--|---|--------------------------------------|
| Browser dependency | Yes | No | No |
| Payment type response | Realtime payment | Realtime payment | Cash payment / defer update |
| Reliability | Low | High | High |
| Security | Low if payment verification is not enabled | High | High |
| IPN implementation | Frontend: easier to implement using JS snippet with treq=0 Backend: POST back all values + treq=1 to returnipn.php, more reliable | Backend: POST back all
values + treq=1 to
returnipn.php | Backend: echo
"CBTOKEN: MPSTATOK" |

MERCHANT REQUEST APIS

PG has prepared plenty of merchant tools for merchants to initiate status requery and cancellation/void of transaction. However, merchants are not allowed to send in requests too frequently (maximum 1 query every 5 seconds). Massive incoming query will lead to IP blocking without prior notice. There will be a validity duration to initiate a status requery API call, generally within **1 hour** after the initiated time for online payment and the due time for offline payment.

The back-end services available are:-

- 1. Direct Status Requery merchant send status query to processing bank directly
- 2. Indirect Status Requery merchant send status query to PG system
- 3. Daily Transaction Report (Reconciliation) list all transactions of a specific date
- 4. Settlement Report (Reconciliation) settlement details
- 5. Capture Request to capture any pre-auth or authorized transaction
- 6. Reversal Request merchant to cancel or void a transaction or refund of payment
- 7. Partial Refund for merchant who requires partial refund only
- 8. Partial Refund Status Inquiry by Txn ID
- 9. Channel Status API
- 10. Card BIN information API
- 11. Foreign Exchange Rate API
- 12. Void Pending-Cash API
- 13. Recurring Plans API

Notes:

W.e.f 19th October 2017, Razer Merchant Services will migrate all none payment-flow related service APIs to a new FQDN: https://api.molpay.com (and now changed to https://api.merchant.razer.com) from the original https://www.onlinepayment.com.my

W.e.f 1st November 2017, Razer Merchant Services will shutdown all none payment-flow related service APIs on https://www.onlinepayment.com.my

For sandbox environment, use https://sandbox.merchant.razer.com

Direct Status Requery

This will trigger a query to the payment channel or bank status server and there are cases that bank status server is not in-sync with its payment server that might give different results, that leads to a defer update and will trigger a callback from PG server, once the status is synced and changed.

Note: No result available for transaction more than 7 days.

Request

URL: https://api.merchant.razer.com/RMS/API/gate-query/index.php

Method: POST or GET

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|---|---|
| amount | 2 decimal points numeric value | The payment amount |
| txID | integer, 20 digits | Unique transaction ID for tracking purpose. |
| domain | alphanumeric, 32 chars | Merchant ID in PG system. |
| skey | 32 chars hexadecimal string | This is the data integrity protection hash string. |
| url | optional, URL for POST response | The URL to receive POST response from PG |
| type | optional, 1-digit integer, obsoleted in new
API sets | 0 = plain text result (default)
1 = result via POST method
2 = JSON text result |

Response

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------------|---|
| Amount | 2 decimal points numeric value | The payment amount |
| TranID | integer, 20 digits | Unique transaction ID for tracking purpose. |
| Domain | alphanumeric, 32 chars | Merchant ID in PG system. |
| Channel | alphanumeric, 100 chars | Payment via Channel |
| VrfKey | 32 chars hexadecimal string | This is the data integrity protection hash string. |
| StatCode | string of 2-digit numeric | 00 = Success
11 = Failure
22 = Pending |
| StatName | alphanumeric | Success: captured, settled, authorized
Failure: failed, cancelled, chargeback, release,
reject/hold, blocked, ReqCancel, ReqChargeback
Pending: Pending, Unknown |
| Currency | 3 chars ISO-4217 currency code | The payment currency. E.g. MYR, USD, EUR, AUD, SGD, CNY, IDR |
| ErrorCode | alphanumeric | Error code defined by channel for failed transactions only |

| ErrorDesc alpha | anumeric | Error description defined by channel for failed transactions only |
|-----------------|----------|---|
|-----------------|----------|---|

Formula of skey & VrfKey

```
skey =md5( {txID}{domain}{verify_key}{amount} )
VrfKey=md5( {Amount}{secret_key}{Domain}{TranID}{StatCode} )
```

Example of Direct Status Requery for PHP

```
$\skey = md5(\stxID \cdot \status \text{Triple of Briest Status Requery For Fried Fri
```

Example of response

| type=0 (default output, plain text with linebreaks) | type=1 (POST result sent to URL) | type=2 (JSON test) |
|---|---|---|
| StatCode=00
StatName=captured
TranID=65234
Amount=3899.00
Domain=shopA
Channel=fpx
VrfKey=456cf69e5bddfe8ed47371096
Currency=MYR
ErrorCode=
ErrorDesc= | \$_POST [StatCode] => "00";
\$_POST [StatName] => "captured";
\$_POST [TranID] => "65234";
\$_POST [Amount] => "3899.00";
\$_POST [Domain] => "shopA";
\$_POST[Channel] => "fpx";
\$_POST[VrfKey:] => "456cf69e5bddfe8ed47371096";
\$_POST[Currency] => "MYR";
\$_POST[ErrorCode] => "";
\$_POST[ErrorDesc] => ""; | { "StatCode": "00", "StatName": "captured", "TranlD": "65234", "Amount": "3899.00", "Domain": "shopA", "Channel": "fpx", "VrfKey": "456cf69e5bddfe8ed47371096", "Currency": "MYR", "ErrorCode": null, "ErrorDesc": null } |

Indirect Status Requery

There are several types of status requery on PG system:-

- 1. Query by unique transaction ID (recommended)
- 2. Query by order ID & get latest matched result (single output) (slow query)
- 3. Query by order ID & get all matched results (batch output) (very slow query)
- 4. Query by multiple order ID (batch output) (very slow query)
- 5. Query by multiple transaction ID (batch output) (very slow query)

For bulk requery, best practice is to utilize the 4th or 5th APIs once every half an hour for unknown status transactions only

Note: No result available for transaction more than 7 days.

1. Query by unique transaction ID

Request

URL: https://api.merchant.razer.com/RMS/q_by_tid.php

Method: POST or GET

Example of response

| 2.44 | | | |
|--|--|--|--|
| type=0 (default output, plain text with linebreaks) | type=1 (POST result sent to URL) | | |
| StatCode: 00 StatName: captured TranID: 10645406 Amount: 138.99 Domain: ShopB VrfKey: 9862acf1099b625c00b225887e715861 Channel: credit OrderID: ABC123 Currency: MYR ErrorCode: ErrorDesc: | \$_POST [StatCode] => "00";
\$_POST [StatName] => "captured";
\$_POST [TranID] => "10565234";
\$_POST [Amount] => "3899.00";
\$_POST [Domain] => "shopC";
\$_POST[VrfKey:] => "456cf69e5bddfe8ed47371096";
\$_POST[Channel] => "credit";
\$_POST[OrderID] => "ABC123";
\$_POST[Currency] => "MYR";
\$_POST[ErrorCode] => "";
\$_POST[ErrorDesc] => ""; | | |

^{*} Request & Response parameters are the same as Direct Status Requery but the format and parameters order of the responses are slightly different.

2. Query by order ID (single output)

Request

URL: https://api.merchant.razer.com/RMS/query/q_by_oid.php

Method: POST or GET

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|-------------------------------------|--|
| amount | 2 decimal points numeric value | The payment amount |
| oID | alphanumeric, 32 chars | Merchant order ID, which might be duplicated. |
| domain | alphanumeric, 32 chars | Merchant ID in PG system. |
| skey | 32 chars hexadecimal string | This is the data integrity protection hash string. |
| url | Conditional , URL for POST response | The URL to receive POST response from PG, it is mandatory for type=1 |
| type | optional, 1-digit integer | 0 = plain text result (default)
1 = result via POST method |
| req4token | optional, 1-digit integer | 0 = No (default)
1 = Yes for more card related information |

Response

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------------|--|
| StatCode | string of 2-digit numeric | 00 = Success
11 = Failure
22 = Pending |
| StatName | alphanumeric | Success: captured, settled, authorized
Failure: failed, canceled, chargeback, release,
reject/hold, blocked, ReqCancel, ReqChargeback
Pending: Pending, Unknown |
| OrderID | alphanumeric, 32 chars | Invoice or order number from merchant system. |
| Amount | 2 decimal points numeric value | The payment amount |
| TranID | integer, 10 digits | Unique transaction ID for tracking purpose. |
| Domain | alphanumeric, 32 chars | Merchant ID in PG system. |
| BillingDate | date (YYYY-MM-DD HH:mm:ss) | Transaction date/time |
| BillingName | alphanumeric, 128 chars | Buyer full name |
| VrfKey | 32 chars hexadecimal string | This is the data integrity protection hash string. |
| Channel | alphanumeric, 100 chars | Payment via channel |
| Currency | 3 chars ISO-4217 currency code | The payment currency. E.g. MYR, USD, EUR, AUD, SGD, CNY, IDR |
| ErrorCode | alphanumeric | Error code defined by channel for failed transactions only |

| ErrorDesc | alphanumeric | Error description defined by channel for failed transactions only |
|-----------|--|---|
| token | optional, with req4token=1 | Card payment only: if PAN has been tokenized |
| ccbrand | optional, with req4token=1 | Card payment only: Visa, MasterCard, AMEX |
| cclast4 | optional, 4-digit numeric with req4token=1 | Card payment only: Last 4-digit of PAN |
| cctype | optional, with req4token=1 | Card payment only: Credit, Debit, Prepaid |

Formula of skey & VrfKey

 $skey = md5(\{oID\}\{domain\}\{\textit{verify_key}\}\{amount\}) \\ VrfKey=md5(\{Amount\}\{\textit{secret_key}\}\{Domain\}\{OrderID\}\{StatCode\}) \\$

3. Query by order ID (batch output)

Request

URL: https://api.merchant.razer.com/RMS/query/q_oid_batch.php

Method: POST or GET

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--|---|
| oID | alphanumeric, 32 chars | Merchant order ID, which might be duplicated. |
| domain | alphanumeric, 32 chars | Merchant ID in PG system. |
| skey | 32 chars hexadecimal string | This is the data integrity protection hash string. |
| url | optional, URL for POST response | The URL to receive POST response from PG |
| type | optional, 1-digit integer | 0 = plain text result (default)
1 = result via POST method |
| format | optional, 1-digit integer, for type=1 only | 0 = result string with delimiter () 1 = result in array |
| req4token | optional, 1-digit integer | 0 = No (default)
1 = Yes for more card related information |

Response

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------------|---|
| TranID | integer, 20 digits | Unique transaction ID for tracking purpose. |
| BillingDate | date (YYYY-MM-DD HH:mm:ss) | Transaction date |
| StatCode | string of 2-digit numeric | 00 = Success
11 = Failure
22 = Pending |
| StatName | alphanumeric | Success: captured, settled, authorized
Failure: failed, cancelled, chargeback, release,
reject/hold, blocked, ReqCancel, ReqChargeback
Pending: Pending, Unknown |
| Amount | 2 decimal points numeric value | The payment amount |
| BillingName | alphanumeric, 128 chars | Buyer full name |
| Currency | 3 chars ISO-4217 currency code | The payment currency. E.g. MYR, USD, EUR, AUD, SGD, CNY, IDR |
| ErrorCode | alphanumeric | Error code defined by channel for failed transactions only |
| ErrorDesc | alphanumeric | Error description defined by channel for failed transactions only |
| token | optional, with req4token=1 | Card payment only: if PAN has been tokenized |
| ccbrand | optional, with req4token=1 | Card payment only: Visa, MasterCard, AMEX |

| cclast4 | optional, 4-digit numeric, with req4token=1 | Card payment only: Last 4-digit of PAN |
|---------|---|---|
| cctype | optional, with req4token=1 | Card payment only: Credit, Debit, Prepaid |

Formula of skey

```
skey =md5( {oID}{domain}{verify_key})
```

Example of response

| Example of resp | bonde |
|--|---|
| type=0,
plain text output,
newline with
single or two TAB
character(s) | TranIDBillingDateStatCodeStatName Amount BillingName Currency ErrorCode ErrorDesc4186072009-11-2622pending25.00LenkaMYR4186032009-11-2600captured125.10MikaMYR4185832009-11-2600captured71.10CiaraMYR |
| type=1, format=0,
POST variables
with delimiter " " | \$_POST[TranID] = "418607 418603 418583";
\$_POST[BillingDate] = "2009-11-26 2009-11-26";
\$_POST[StatCode] = "22 00 00";
\$_POST[StatName] = "pending captured captured";
\$_POST[Amount] = "25.00 125.10 71.10";
\$_POST[BillingName] = "Lenka Mika Ciara";
\$_POST[Currency] = "MYR MYR MYR";
\$_POST[ErrorCode] = " ";
\$_POST[ErrorDesc] = " "; |
| type=1, format=1,
POST variables in
array | \$_POST[0][TranID] = "418607"; \$_POST[0][BillingDate] = "2009-11-26"; \$_POST[0][StatCode] = "22"; \$_POST[0][StatName] = "pending"; \$_POST[0][Amount] = "5.00"; \$_POST[0][BillingName] = "Lenka"; \$_POST[0][Currency] = "MYR"; \$_POST[0][ErrorCode] = ""; \$_POST[0][ErrorCode] = ""; \$_POST[0][ErrorDesc] = ""; \$_POST[1][TranID] = "418603"; \$_POST[1][BillingDate] = "2009-11-26"; \$_POST[1][StatName] = "captured"; \$_POST[1][StatName] = "captured"; \$_POST[1][BillingName] = "Mika"; \$_POST[1][BillingName] = "Mika"; \$_POST[1][Currency] = "MYR"; \$_POST[1][ErrorDesc] = ""; \$_POST[1][ErrorDesc] = ""; \$_POST[2][BillingDate] = "2009-11-26"; \$_POST[2][StatName] = "captured"; \$_POST[2][StatName] = "captured"; \$_POST[2][StatName] = "captured"; \$_POST[2][StatName] = "Ciara"; \$_POST[2][ErrorCode] = ""; |

4. Query by multiple order ID (batch output)

Request

URL: https://api.merchant.razer.com/RMS/query/q_by_oids.php

Method: POST or GET

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|---|--|
| olDs | alphanumeric, up to 100 orders | Merchant order ID, must be URLencoded. |
| delimiter | single character, default is " " | Avoid using any symbol that might exist in order ID, and also any of these: ",%, $*$, $<$, $>$, $?$, \setminus , $\$$, $\&$, $=$ |
| domain | alphanumeric, 32 chars | Merchant ID in PG system. |
| skey | 32 chars hexadecimal string | This is the data integrity protection hash string. |
| url | optional, URL for POST response | The URL to receive POST response from PG |
| type | optional, 1-digit integer | 0 = plain text result (default)
1 = result via POST method |
| format | optional, 1-digit integer, apply for type=1
only | result string with TAB-newline (default) 0 = result string with delimiter () 1 = result in array |
| req4token | optional, 1-digit integer | 0 = No (default)
1 = Yes for more card related information |

Response

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------------|--|
| OrderID | alphanumeric, 32 chars | Merchant order ID for tracking purpose. |
| TranID | integer, 20 digits | Unique transaction ID for tracking purpose. |
| BillingDate | date (YYYY-MM-DD HH:mm:ss) | Transaction date |
| StatCode | string of 2-digit numeric | 00 = Success
11 = Failure
22 = Pending |
| StatName | alphanumeric | Success: captured, settled, authorized Failure: failed, cancelled, chargeback, release, reject/hold, blocked, ReqCancel, ReqChargeback Pending: Pending, Unknown |
| Amount | 2 decimal points numeric value | The payment amount |
| BillingName | alphanumeric, 128 chars | Buyer full name |
| VrfKey | 32 chars hexadecimal string | This is the data integrity protection hash string. |
| Channel | alphanumeric, 100 chars | Payment via channel |
| Currency | 3 chars ISO-4217 currency code | The payment currency. E.g. MYR, USD, EUR, AUD, SGD, CNY, IDR |

| ErrorCode | alphanumeric | Error code defined by channel for failed transactions only |
|-----------|---|---|
| ErrorDesc | alphanumeric | Error description defined by channel for failed transactions only |
| token | optional, with req4token=1 | Card payment only: if PAN has been tokenized |
| ccbrand | optional, with req4token=1 | Card payment only: Visa, MasterCard, AMEX |
| cclast4 | optional, 4-digit numeric, with req4token=1 | Card payment only: Last 4-digit of PAN |
| cctype | optional, with req4token=1 | Card payment only: Credit, Debit, Prepaid |

Formula of skey and VrfKey

skey =md5({domain}{oIDS}{verify_key})
VrfKey=md5({Amount}{secret_key}{Domain}{OrderID}{StatCode})

Example of response

```
type=1
                 [oid1] => Array
format=1
                          [TranID] => 9994238
                          [BillingDate] => 2016-11-28 16:32:08
                          [StatCode] => 00
                          [StatName] => captured
                          [Amount] => 30.00
                          [BillingName] => kimyoon
[VrfKey] => 311d72c16e0d3b3fc7994ae93467a2d9
                          [Channel] => mb2u
                          [Currency] => MYR
                          [ErrorCode] =>
                          [ErrorDesc] =>
                 [oid2] => Array
                          [TranID] => 10004613
                         [BillingDate] => 2016-11-29 09:56:02
                         [StatCode] => 11
                         [StatName] => failed
                         [Amount] => 58.60
                         [BillingName] => MohdAli
                         [VrfKey] => f9f06b47e23410e624df5e272accb27dc
                         [Channel] => fpx
                         [Currency] => MYR
                          [ErrorCode] =>
                          [ErrorDesc] =>
                 [oidN] => Array
                           [TranID] => -
                          [BillingDate] => -
                          [StatCode] => -
                          [StatName] => -
                          [Amount] => -
                          [BillingName] => -
                           [VrfKey] => -
                          [Channel] => -
                          [Currency] => -
                          [ErrorCode] => -
                          [ErrorDesc] => -
                 [OrderID] => oid1|oid2|...|oidN
type=1
                  [TranID] => 9994238|10004613|...|-
format=0
                 [BillingDate] => 2016-11-28 16:32:08|2016-11-29 09:56:02|...|-
delimiter=|
                 [StatCode] => 00|11|...|-
                  [StatName] => captured|failed|...|-
                  [Amount] => 30.00|58.60|...|-
                 [BillingName] => Nurbaizura|KUMARASAN|...|-
                  [VrfKey] => 311d72c16e0d3b3fc7994ae93467a2d9|f9f06b47e23410e624df5e272accb27dc|...|-
                  [Channel] => mb2u|fpx|...|-
                  [Currency] => MYR|MYR|...|-
                 [ErrorCode] => ||...|-
                 [ErrorDesc] => ||...|-
```

5. Query by multiple transaction ID (batch output)

Request

URL: https://api.merchant.razer.com/RMS/query/q_by_tids.php

Method: POST or GET

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--|---|
| tIDs | concatenated transaction ID with " " up to 100 items | A group of transaction ID, must be URLencoded |
| domain | alphanumeric, 32 chars | Merchant ID in PG system |
| skey | 32 chars hexadecimal string | This is the data integrity protection hash string |
| url | optional, URL for POST response | The URL to receive POST response from PG |
| type | optional, 1-digit integer | 0 = plain text result (default)
1 = result via POST method |
| format | optional, 1-digit integer, apply for type=1
only | 0 = result string with delimiter () 1 = result in array |
| req4token | optional, 1-digit integer | 0 = No (default)
1 = Yes for more card related information |

Response

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------------|---|
| TranID | integer, 20 digits | Unique transaction ID for tracking purpose. |
| Amount | 2 decimal points numeric value | The payment amount |
| BillingDate | date (YYYY-MM-DD HH:mm:ss) | Transaction date |
| BillingName | alphanumeric, 128 chars | Buyer full name |
| VrfKey | 32 chars hexadecimal string | This is the data integrity protection hash string. |
| StatCode | string of 2-digit numeric | 00 = Success
11 = Failure
22 = Pending |
| StatName | alphanumeric | Success: captured, settled, authorized
Failure: failed, cancelled, chargeback, release,
reject/hold, blocked, ReqCancel, ReqChargeback
Pending: Pending, Unknown |
| OrderID | alphanumeric, 32 chars | Merchant order ID for tracking purpose. |
| Currency | 3 chars ISO-4217 currency code | The payment currency. E.g. MYR, USD, EUR, AUD, SGD, CNY, IDR |
| ErrorCode | alphanumeric | Error code defined by channel for failed transactions only |

| ErrorDesc | alphanumeric | Error description defined by channel for failed transactions only |
|-----------|---|---|
| token | optional, with req4token=1 | Card payment only: if PAN has been tokenized |
| ccbrand | optional, with req4token=1 | Card payment only: Visa, MasterCard, AMEX |
| cclast4 | optional, 4-digit numeric, with req4token=1 | Card payment only: Last 4-digit of PAN |
| cctype | optional, with req4token=1 | Card payment only: Credit, Debit, Prepaid |

Formula of skey and VrfKey

skey =md5({domain}{tIDS}{verify_key})
VrfKey=md5({Amount}{secret_key}{Domain}{TranID}{StatCode})

Daily Transaction Report (Reconciliation)

PG Daily Transaction Report provides merchant end-of-day (EoD) reconciliation or to verify all transactions for a specific date.

Request

URL: https://api.merchant.razer.com/RMS/API/PSQ/psq-daily.php

Method: POST or GET

| Variable / Parameter | Type Format / Max Length | Description / Example |
|---|---|--|
| merchantID | alphanumeric, 32 chars | Merchant ID in PG system. |
| skey | 32 chars hexadecimal string | This is the data integrity protection hash string. |
| rdate | date (YYYY-MM-DD) or
date(YYYY-MM-DD HH:ii:ss) | The date or beginning time of transactions to query 2020-10-10 or 2020-10-10 07:11:24 |
| rduration | optional, second in numeric | Without rduration, the search duration is 24 hours or 86400 seconds starting from rdate |
| status | optional, alphanumeric, 32 chars | 00 - success 11 - failed 22 - pending Combine with delimiter " " for multiple status or left empty for all status. |
| version | version | 2 or 3 |
| additional_fields
[New from Version 2] | optional, predefined tags | BillingEmail - billing email TransactionRate - transaction rate BillingInfo - billing info TransactionCost - transaction cost Channel - channel BillingMobileNumber - billing mobile TransactionFee - transaction fee GST - GST (tax) NetAmount - net amount IPAddress - IP address BankName - bank name BIN - card no (hidden) ExpiryDate - card expiry date StatusDescription - status description SettlementDate - settlement date PaidDate - paid date TerminalID - terminal ID PayTransactionID - transaction ID BuyerName - buyer name CaptureRefID - Capture Reference ID (Only in v3) RefundRefID - Refund Reference ID (Only in v3) all - for all additional fields Combine with delimiter "," for multiple fields |
| response_type
[New from Version 2] | optional | Response format in either text/json/csv(only in v2 and v3) |

Formula of skey

skey =md5({rdate}{merchantID}{secret_key})

Response

(plain text with newline & TAB characters)

| Variable / Parameter | Type Format / Max Length | Description / Example |
|--|---------------------------------|--|
| BillingDate | date/time (YYYY-MM-DD HH:mm:ss) | Transaction date/time |
| OrderID | alphanumeric, 32 chars | Invoice or order number from merchant system. |
| TranID | integer, 20 digits | Unique transaction ID for tracking purpose. |
| Channel | Predefined string in PG system | Channel references for the merchant system. |
| Amount | 2 decimal points numeric value | The payment amount |
| StatCode | string of 2-digit numeric | 00 = Success
11 = Failure
22 = Pending |
| StatName | word | Success: captured, settled, authorized
Failure: failed, cancelled, chargeback, release,
reject/hold, blocked, ReqCancel, ReqChargeback
Pending: Pending, Unknown |
| BillingName | alphanumeric, 128 chars | Buyer full name |
| ServiceItem | text | Billing Information / Description (newline will be replaced by whitespace) |
| Additional fields: BillingEmail TransactionRate TransactionCost BillingMobileNumber TransactionFee GST NetAmount IPAddress BankName ExpiryDate StatusDescription SettlementDate PaidDate TerminalID PayTransactionID BuyerName | text (default) or JSON string | BillingEmail = ABC@razer.com TransactionRate = 0.0290 TransactionCost = 0.0000 BillingMobileNumber = 0123456789 TransactionFee = 100.0 GST = 0 NetAmount = 1900.0 IPAddress = 192.168.0.1 BankName = unknownbank ExpiryDate = 2020 StatusDescription = This is status description SettlementDate = 2020-05-26 10:51:51 PaidDate = 2020-05-31 10:51:51 TerminalID = 999 |

Settlement Report (Reconciliation)

PG Settlement Report provides merchants the fund transfer or balance clearance and settlement reconciliation for a specific date.

Version 1.0, 2.0 and 3.0 will be obsoleted and the following is the latest specification of version 4.0. Version 4.0 will include refund and chargeback records that are excluded from the settlement batch.

Request

URL: https://api.merchant.razer.com/RMS/API/settlement/report.php

Method: GET

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|---|---|
| version | Integer, Default value is 1.0. | Indicate version of the API. Current version is 5.0. If not specified, version 1.0 will be used. |
| merchant_id | alphanumeric, 32 chars | Merchant ID in PG system |
| token | 32 chars hexadecimal string | This is the data integrity protection hash string |
| date | date (YYYY-MM-DD) | The date of settlement to query |
| format | json, xml, csv | Recommend to use csv for large file |
| download | optional, set to "y" for download mode | Download option is only available for CSV format |
| page | Integer, Default value is 0 mean display all. | Determines the page to view for D records that have a limit of 5000 transactions. Currently available to version 5.0. |

Formula of token

token =md5({merchantID}{verify_key}{date})

Response

| Value | Type Format / Max Length | Description / Example |
|----------------------------|-----------------------------------|--|
| RecordIdentifier | 1 character | H: Header |
| SettlementCurrency | 3 chars ISO-4217 currency code | Default is MYR, Settlement currency |
| SettlementNetAmount | numeric without decimal and comma | total settlement amount, 5331674 is equal to 53,316.74 in that currency |
| SettlementCommissionAmount | numeric without decimal and comma | total settlement fees, sum of the transfer fees and 3rd party costs |
| NumberOfTransactions | numeric | total transaction number of settled transaction or D data type in the report, not including R & G type |

| BatchReferenceNumber | alphanumeric | Reference number of this settlement |
|----------------------|-----------------------------------|---|
| SettlementDate | YYYYMMDD | The settlement date |
| SettlementGSTAmount | numeric without decimal and comma | Sum of settled transactions GST amount |
| BankAccount | alphanumeric | Bank swift code and bank account number |
| RefundNetAmount | numeric without decimal and comma | Sum of the refund fees |
| RefundGSTAmount | numeric without decimal and comma | Taxes : GST/VAT on the RefundNetAmout |

| Variable / Parameter | Type Format / Max Length | Description / Example |
|-----------------------------|-----------------------------------|--|
| RecordIdentifier | 1 character | D: Data or the content
R: Refund / Chargeback Data
G: Data (Original txn data - Txn fully refunded
before settlement) |
| MerchantId | alphanumeric | Merchant ID in PG system |
| Orderld | alphanumeric | Order references for merchant system |
| Channel | alphanumeric | Payment channel / method |
| AcquirerReference | alphanumeric | PG transaction ID |
| RefundID | n{111} | Refund ID provided by PG |
| MerchantRefID | ans{1100} | Unique refund tracking/reference ID by merchant |
| RefundFees | numeric without decimal and comma | PG refund fees. D: Always Zero '0' value R: PG refund fees (positive value) |
| TransactionNetAmount | numeric without decimal and comma | D: amount after deducting MDR/fees. Formula: TransactionGrossAmount - TransactionCommissionAmount R: amount refunded to the buyer (full/partial) after adding Refund fees. Formula: TransactionGrossAmount + RefundFees |
| TransactionCommissionAmount | numeric without decimal and comma | The MDR or transaction fee or commission D: MDR R: Recalculate MDR for partial refund during captured and charging model have %. Otherwise the value is 0. |
| TransactionDate | YYYYMMDD | The date of transaction been created |
| TransactionTime | HHmmss | The time of transaction been requested/created |
| TransactionGrossAmount | numeric without decimal and comma | D: Payment amount
R: amount refunded to the buyer (full/partial) |
| TransactionCurrency | 3 chars ISO-4217 currency code | The currency sent in by merchant or most of the time, paid by the buyer |
| TransactionGST | numeric without decimal and comma | Taxes : GST/VAT |

| SettlementNetAmountInProcessi
ngCurrency | numeric without decimal and comma | D: TransactionNetAmount after deducting GST. Formula: TransactionGrossAmount - TransactionCommissionAmount - TransactionGST R: TransactionNetAmount after deducting GST. Formula: NEGATIVE (TransactionGrossAmount + RefundFees + TransactionGST - TransactionCommissionAmount) |
|---|---|--|
| SettlementNetAmount | numeric without decimal and comma | Net amount in settlement currency, after forex conversion (round to 2 decimal place). Formula: SettlementNetAmountInProcessingCurrency*Forex |
| SettlementCurrency | 3 chars ISO-4217 currency code | MYR, SGD, USD, |
| Forex | numeric without 8 digit decimal and comma | Forex rate for multi currency transactions. Eg: 1.000000000 = 1000000000 |
| Status | alphanumeric | The transaction status. Usually SETTLED for D, REFUND for R, CANCELLED for G |

| Variable / Parameter | Type Format / Max Length | Description / Example |
|--------------------------------|--------------------------|---|
| RecordIdentifier | 1 character | F: Record summary |
| NumberOfTransactionsTotal | integer | Total number of D records |
| NumberOfTransactionsShown | integer | Total number of D records been display |
| FilterTransactionsTotalPages | integer | Total available pages for D records |
| FilterTransactionsLimitPerPage | integer | Limit record been display for D records |

^{*}Note: F row only available in version 5.0 and when page value is more than 0. To speed up the response on the subsequence pages, row R & G will be excluded and may only appear at page 1.

Error (always in JSON format)

| Variable / Parameter | Description / Example |
|----------------------|-------------------------------------|
| success | false |
| token | invalid token |
| date | invalid date format, eg. yyyy-mm-dd |

The following example might not be accurate and please only take it as a format reference

```
"RecordIdentifier": "H",
     "SettlementCurrency": "MYR",
     "SettlementNetAmount": "1033293",
     "SettlementCommissionAmount": "2439",
     "NumberOfTransactions": 15,
     "BatchReferenceNumber": "20170817-613",
     "SettlementDate": "20170817",
     "SettlementGSTAmount": "2239",
     "BankAccount": "(MALAYAN BANKING BHD) MerchantID SDN BHD 5144 8457 3110",
     "RefundNetAmount": "179741",
     "RefundGSTAmount": "334"
"RecordIdentifier": "D",
"MerchantId": "merchantIDSB",
"OrderId": "OP-02559",
"Channel": "maybank2u",
"AcquirerReference": "18300981",
"RefundFees": "0",
"TransactionNetAmount": "9732",
"TransactionCommissionAmount": "178",
"TransactionDate": "20170807",
"TransactionTime": "112250",
"TransactionGrossAmount": "9900",
"TransactionCurrency": "MYR",
"TransactionGST": "010",
"SettlementNetAmountInProcessingCurrency": "9722"
"SettlementNetAmount": "000",
"SettlementCurrency": "MYR",
"Forex": null,
"Status": "SETTLED"
},
"RecordIdentifier": "D",
"MerchantId": "merchantIDSB",
"OrderId": "163138",
"Channel": "credit",
"AcquirerReference": "18310736",
"RefundFees": "0",
"TransactionNetAmount": "294521",
"TransactionCommissionAmount": "9656",
"TransactionDate": "20170807",
"TransactionTime": "133001",
"TransactionGrossAmount": "303630",
"TransactionCurrency": "MYR",
"TransactionGST": "547",
"SettlementNetAmountInProcessingCurrency": "293974",
"SettlementNetAmount": "000",
"SettlementCurrency": "MYR",
"Forex": null,
"Status": "SETTLED"
                                        ... segment removed ...
```

```
"RecordIdentifier": "D",
"MerchantId": "merchantIDSB",
"OrderId": "79126387162378123",
"Channel": "credit",
"AcquirerReference": "18516590",
"RefundFees": "0",
"TransactionNetAmount": "153745".
"TransactionCommissionAmount": "5040",
"TransactionDate": "20170810",
"TransactionTime": "120057",
"TransactionGrossAmount": "158500",
"TransactionCurrency": "MYR",
"TransactionGST": "285",
"SettlementNetAmountInProcessingCurrency": "153460",
"SettlementNetAmount": "000",
"SettlementCurrency": "MYR",
"Forex": null,
"Status": "SETTLED"
"RecordIdentifier": "D",
"MerchantId": "merchantIDSB",
"OrderId": "31283671293",
"Channel": "credit",
"AcquirerReference": "18532262",
"RefundFees": "0",
"TransactionNetAmount": "9700",
"TransactionCommissionAmount": "318",
"TransactionDate": "20170810", "TransactionTime": "155958",
"TransactionGrossAmount": "10000",
"TransactionCurrency": "MYR",
"TransactionGST": "018".
"SettlementNetAmountInProcessingCurrency": "9682"
"SettlementNetAmount": "000",
"SettlementCurrency": "MYR",
"Forex": null.
"Status": "SETTLED"
},
"RecordIdentifier": "R".
"MerchantId": "merchantIDSB",
"OrderId": "54671293761293",
"Channel": "credit",
"AcquirerReference": "13251784",
"RefundFees": 0,
"TransactionNetAmount": "-179741",
"TransactionCommissionAmount": "000",
"TransactionDate": "20170503",
"TransactionTime": "155958",
"TransactionGrossAmount": "-185300",
"TransactionCurrency": "MYR",
"TransactionGST": "-018",
"SettlementNetAmountInProcessingCurrency": "-179741",
"SettlementNetAmount": "000",
"SettlementCurrency": "MYR",
"Forex": null,
"Status": "REFUND"
```

Unsettled/Refunded Transaction Report (Exclusion from settlement)

Any unsettled transaction that has been canceled within a given settlement batch will be retrievable using this API

Request

URL: https://api.merchant.razer.com/RMS/API/settlement/report_refund.php

Method: GET

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|-----------------------------|---|
| merchant_id | alphanumeric, 32 chars | Merchant ID in PG system |
| token | 32 chars hexadecimal string | This is the data integrity protection hash string |
| date | date (YYYY-MM-DD) | The date of settlement to query |
| format | json, xml, csv | |
| download | optional, set to "y" if | Download option is only available for CSV format |

Formula of token

token =md5({merchantID}{secret_key}{date})

Response

| response | | |
|------------------------------------|-----------------------------------|--|
| Value | Type Format / Max Length | Description / Example |
| Н | 1 character | Header |
| Settlement currency | 3 chars ISO-4217 currency code | Default is MYR |
| total settlement amount | numeric without decimal and comma | 5331674 is equal to 53,316.74 in that currency |
| total settlement fees | numeric without decimal and comma | Sum of the transfer fees and 3rd party costs |
| total refund transaction
number | numeric | Total number of refund transactions |
| batch reference number | alphanumeric | Reference number of this settlement |
| date | YYYYMMDD | The settlement date |
| bank account | alphanumeric | Bank swift code and bank account number |
| Start date | YYYY-MM-DD | The settlement period start date |
| End date | YYYY-MM-DD | The settlement period end date |

| Variable / Parameter | Type Format / Max Length | Description / Example |
|-------------------------------|-----------------------------------|---|
| R | 1 character | Refund Data |
| merchant ID | alphanumeric | Merchant ID in PG system |
| Order ID | alphanumeric | Order references for merchant system |
| Channel / transaction ID | alpha-numeric / numeric | Payment channel / PG transaction ID |
| Transaction net amount | Numeric without decimal and comma | This should equal the original transaction amount minus the fee or commission |
| Transaction commission amount | Numeric without decimal and comma | The MDR or transaction fee or commission |
| Forex Rate | 0 | 0 |
| Settlement amount | 0 | 0 |
| Settlement currency | 0 | 0 |
| Transaction date | YYMMDD | The date of settlement |
| Transaction gross amount | Numeric without decimal and comma | Original transaction amount |
| Transaction currency | 3 chars ISO-4217 currency code | Default is MYR |
| Status | alpha-numeric | The transaction status. Usually REFUND |

Error (always in JSON format)

| Variable / Parameter | Description / Example | |
|----------------------|-------------------------------------|--|
| success | false | |
| token | invalid token | |
| date | invalid date format, eg. yyyy-mm-dd | |

Capture Request (For pre-auth or authorized transaction)

Merchant should use SALES (SALS) for most of the use cases and avoid Pre-Authorization & Capture model. This is because many merchant will miss the auto-release period before they can actually capture the funds. Merchant who uses preauth or authorize payment mode may capture the transaction at a later stage by using this API

Request

URL: https://api.merchant.razer.com/RMS/API/capstxn/index.php

Method: POST or GET

| Variable / Parameter | Type Format / Max Length | Description / Example | |
|----------------------|--------------------------------|--|--|
| domain | alphanumeric, 32 chars | Merchant ID in PG system | |
| tranID | integer, 20 digits | Unique PG transaction ID | |
| amount | 2 decimal points numeric value | The total amount paid or to be paid | |
| RefID | Alphanumeric, 100 chars | Reference ID for tracking purpose sent by merchant | |
| skey | 32 chars hexadecimal string | This is the data integrity protection hash string | |

Response (JSON Format)

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|-----------------------------|---|
| TranID | integer, 20 digits | Unique transaction ID for tracking purposes |
| Domain | alphanumeric, 32 chars | Merchant ID in PG system. |
| VrfKey | 32 chars hexadecimal string | This is the data integrity protection hash string |
| StatCode | string of 2-digit numeric | 00 = Success 11 = Failure 12 = Invalid or unmatched security hash string 13 = Not a credit card transaction 15 = Requested day is on settlement day 16 = Forbidden transaction 17 = Transaction not found 18 = Missing required parameter 19 = Domain not found 20 = Temporary out of service 21 = Authorization expired 23 = Not allowed to perform partial capture 24 = Transaction has already been captured. 25 = Amount requested more than available capture amount 99 = General Error(Please check with RMS Support) |
| StatDate | date (YYYY-MM-DD) | Response date & time |
| PartialCaptureTranID | integer, 20 digits | Created upon successful partial capture request |

Formula of skey & VrfKey

skey =md5({txnID}{amount}{domain}{verify_key})
VrfKey=md5({secret_key}{Domain}{TranID}{StatCode})

Reversal Request

Merchant can request a reversal of transaction via original payment method for an "authorized" card, and "captured" card (including recurring payment), M2U, CIMB Clicks, Hong Leong Connect, Razer Pay, Alipay-Spot, POS Terminal, Boost and WeChat Pay payment.

For most of the payment channels above, the transaction can be "**void**" immediately on the same day before settlement (card payment at around 10pm and other channels are 11:59pm local time). For a payment channel that accepts refund requests, the transaction that happens within 180 days will be refunded within 7-14 days after the request is sent.

Please note that this API is to send a refund request, but not getting the status of the refund process. All successful requests shall be executed and if there is any exceptional case, PG support team will contact the merchant to resolve the issue.

Request

URL: https://api.merchant.razer.com/RMS/API/refundAPI/refund.php

Method: POST or GET

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|---------------------------------|---|
| txnID | integer, 20 digits | Unique transaction ID for tracking purpose. |
| domain | alphanumeric, 32 chars | Merchant ID in PG system. |
| skey | 32 chars hexadecimal string | This is the data integrity protection hash string. |
| url | optional, URL for POST response | The URL to receive POST response from PG |
| type | optional, 1-digit integer | 0 = plain text result (default)
1 = result via POST method |

Response

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|-----------------------------|--|
| TranID | integer, 20 digits | Echo of the txnID |
| Domain | alphanumeric, 32 chars | Merchant ID in PG system. |
| VrfKey | 32 chars hexadecimal string | This is the data integrity protection hash string. |
| StatCode | string of 2-digit numeric | 00 = Success (will proceed the request) 11 = Failure 12 = Invalid or unmatched security hash string 13 = Not a refundable transaction 14 = Transaction date more than 180 days 15 = Requested day is on settlement day 16 = Forbidden transaction 17 = Transaction not found 18 = Duplicate partial refund request |

| | | 19 = Merchant not found
20 = Missing required parameter |
|----------|----------------------------|--|
| StatDate | date (YYYY-MM-DD HH:mm:ss) | Response date & time |
| refundID | integer, 20 digits | Refund ID provided by PG |

Formula of skey & VrfKey

skey =md5({txnID}{domain}{secret_key})
VrfKey=md5({secret_key}{Domain}{TranID}{StatCode})

Reversal Reference Table

| Payment
Channel | Support Void /
Refund / Both | Cut-off time for VOID request | Processing method | Credit to buyer within |
|---------------------|---------------------------------|-------------------------------|-------------------|------------------------|
| MYR card payment | Both | 10pm GMT+8 | manual | 14-business day |
| Maybank2u | Refund | - | manual | 7-business day |
| CIMB Clicks | Refund | - | manual | 7-business day |
| Hong Leong Connect | Refund | - | manual | 7-business day |
| Razer Pay | Both | 11:59pm GMT+8 | auto | 1-business day |
| Alipay Spot | Both | 11:59pm GMT+8 | auto | 1-business day |
| Wechat Pay (CN, MY) | Both | 11:59pm GMT+8 | auto | 1-business day |
| Boost | Both | 11:59pm GMT+8 | auto | 1-business day |
| TnG e-Wallet | Both | 11:59pm GMT+8 | auto | 1-business day |
| Grab Pay | Both | 11:59pm GMT+8 | auto | 1-business day |
| Maybank QR Push | Refund | - | manual | 7-business day |

Advanced Full/Partial Refund

Merchants can request a full/partial refund for a "captured" or "settled" transaction regardless of the payment method. The request can be sent within 180 days from the transaction creation date and the refund process will take about 7-14 days after the request is sent.

Merchants can enable the "**Refund Portal**" so that buyers who need a refund could easily provide the bank account details to shorten the refund lead time.

Request

URL: https://api.merchant.razer.com/RMS/API/refundAPI/index.php

Method: POST or GET

| Field Name | Data Type(Size) | M/O | Description |
|------------------|-----------------|-----|---|
| RefundType | a{1} | М | P - Partial Refund |
| MerchantID | an{132} | М | Merchant ID provided by PG |
| RefID | ans{1100} | М | Unique reference ID for tracking purpose sent by merchant |
| TxnID | n{120} | М | PG Transaction ID |
| Amount | n{10,2} | М | eg. '5.00' Amount to be refunded |
| BankCode | an{8} | С | Applicable for Online Banking and Physical Payment transactions only. (Refer to predefined bank lists) |
| BankCountry | a{2} | С | Applicable for Online Banking and Physical Payment transactions only. Two letters country ISO code. (Default value: MY) |
| BeneficiaryName | as{1100} | С | Applicable for Online Banking and Physical Payment transactions only. |
| BeneficiaryAccNo | ans{1100} | С | Applicable for Online Banking and Physical Payment transactions only. |
| Signature | an{32} | М | This is the data integrity protection hash string. |
| mdr_flag | n{1} | 0 | This is to include or exclude MDR refund to the buyer if the amount is same as bill amount. Available value is as below: 0 - Include MDR/Full Refund (Default) 1 - Exclude/Reserved MDR |
| notify_url | as | 0 | This is the URL for merchant to receive refund status (same format as the response of this API), either 00 (Success) or 11 (Rejected) |

 $Signature = md5(\{RefundType\}\{MerchantID\}\{RefID\}\{TxnID\}\{Amount\}\{secret_key\}) \}$

Response

PG responds JSON format to merchant upon a successful request (positive result)

| Field Name | Data Type(Size) | M/O | Description |
|------------|-------------------|-----|--|
| RefundType | a{1} | М | Echo of merchant request |
| MerchantID | an{132} | М | Echo of merchant request |
| RefID | ans{1100} | М | Echo of merchant request |
| RefundID | n{111} | М | Refund ID provided by PG |
| TxnID | n{110} | М | Echo of merchant request |
| Amount | n{10,2} | М | Echo of merchant request |
| Status | a{2} [00, 11, 22] | М | 22 for 'Pending' (Upon Request)
11 for 'Rejected' (via notify_url)
00 for 'Success' (Refunded, via notify_url) |
| Signature | a{32} | М | This is data integrity protection hash string. |
| reason | ans{1255} | 0 | Reason for rejected status |
| FPXTxnID | ans{1100} | 0 | FPX channel Transaction ID |

 $Signature = md5(\{RefundType\}\{MerchantID\}\{RefID\}\{RefundID\}\{TxnID\}\{Amount\}\{Status\}\{secret_key\}) \}$

PG will respond the following in JSON format once error occurs (negative result)

| Field Name | Data Type(Size) | Description | | | |
|------------|-----------------|---------------------|--|--|--|
| error_code | an{5} | Refer to Appendix C | | | |
| error_desc | ans{1255} | Refer to Appendix C | | | |

Partial Refund Status Inquiry by TxnID/RefID

Merchant is able to do a status inquiry for a refund transaction.

Request Type 1

URL: https://api.merchant.razer.com/RMS/API/refundAPI/q_by_txn.php

Method: POST or GET

| Field Name | Data Type(Size) | M/O | Description |
|------------|-----------------|-----|--|
| TxnID | n{120} | М | PG Transaction ID |
| MerchantID | a{132} | М | Merchant ID provided by PG |
| Signature | n{132} | М | This is the data integrity protection hash string. |

Signature = md5({TxnID}{MerchantID}{verify_key})

Request Type 2

URL: https://api.merchant.razer.com/RMS/API/refundAPI/q_by_refID.php

Method: POST or GET

| Field Name | Data Type(Size) | M/O | Description |
|------------|-----------------|-----|--|
| RefID | ans{1100} | М | Unique tracking/references ID from merchant |
| MerchantID | a{132} | М | Merchant ID provided by PG |
| Signature | n{132} | М | This is the data integrity protection hash string. |

Signature = md5({RefID}{MerchantID}{verify_key})

Response

PG responds JSON format to merchant upon a successful request (positive result)

| Field Name | Data Type(Size) | M/O | Description |
|------------|-----------------|-----|--|
| TxnID | n{120} | М | Echo of merchant request |
| RefID | ans{1100} | М | Unique tracking/references ID from merchant |
| RefundID | n{111} | М | Refund ID provided by PG |
| Status | a{8} | М | 'pending' ,'processing' , rejected', 'success' |
| LastUpdate | ans{1255} | М | Last update timestamp. |
| FPXTxnID | ans{1100} | 0 | FPX channel Transaction ID |

Appendix for Partial Refund and Partial Refund Status Inquiry

Appendix A : Data Type Details

| - ppolitime - 1, po 2 ottaine | | |
|-------------------------------|------------------------|--|
| Code | Description | |
| а | Letters, A-Za-z | |
| n | Numbers, 0-9 | |
| S | Symbols, :: ?*,!& | |
| {x} | Fixed length x | |
| {yx} | Length range: y - x | |
| {y,x} | Number range: 0-9. 0-9 | |

Appendix B : M/O Details

| Code | Description |
|------|--------------------|
| М | Mandatory field. |
| 0 | Optional field. |
| С | Conditional field. |

Appendix C : Error Code & Description in JSON

| error_code | error_desc | |
|------------|--|--|
| PR001 | Refund Type not found. | |
| PR002 | MerchantID field is mandatory. | |
| PR003 | RefID field is mandatory. | |
| PR004 | TxnID field is mandatory | |
| PR005 | Amount field is mandatory. | |
| PR006 | Signature field is mandatory | |
| PR007 | Merchant ID not found. | |
| PR008 | Invalid Signature. | |
| PR009 | Txn ID not found. | |
| PR010 | Transaction must be in authorized/captured/settled status | |
| PR011 | Exceed refund amount for this transaction. | |
| PR012 | Bank information is not applicable for credit channel transaction. | |

| PR013 | BankCode not found in our database, please contact support. | | |
|--------|---|--|--|
| PR014 | Bank information is mandatory for non-credit channel transaction. | | |
| PR015 | Server is busy, try again later. | | |
| PR016 | Duplicate RefID found, please provide a unique RefID. | | |
| PR017 | Refund request for transaction that is out of the allowed period. | | |
| PR018 | BeneficiaryName cannot contain non-alphanumeric characters. | | |
| PR019 | Refund is not allowed / Only partial refund is allowed / Only full refund is allowed. | | |
| PR020 | Insufficient balance to refund. | | |
| INQ001 | TxnID field is mandatory. | | |
| INQ002 | MerchantID field is mandatory. | | |
| INQ003 | Signature field is mandatory. | | |
| INQ004 | Merchant ID not found. | | |
| INQ005 | Invalid Signature. | | |
| INQ006 | Unable to find refund transaction. | | |
| INQ011 | RefID field is mandatory. | | |
| | | | |

Static QR-Code Generator

For merchant to generate static QR code of e-wallet

Request

URL: https://api.merchant.razer.com/RMS/API/staticqr/index.php

Method: POST or GET

| Field Name | Data Type(Size) | M/O | Description | |
|------------|-------------------------|-----|--|--|
| merchantID | Alphanumeric, 32 chars | М | Merchant ID provided by PG | |
| channel | Alphanumeric, 32 chars | М | Channel requested: | |
| orderid | Alphanumeric, 32 chars | М | Items ID. E.g: S001 | |
| currency | Alphabet, 3 chars | М | ISO-4217 currency code. | |
| amount | Numeric | М | The total amount to be paid in one purchase order. 2 decimal points and comma(,) is not allowed. | |
| bill_name | Alphanumeric, 128 chars | М | Items name. | |
| bill_desc | Text | М | Item description. | |
| checksum | Alphanumeric, 32 chars | М | This is a request integrity protection hash string. | |

Checksum = md5({merchantID}{channel}{orderid}{currency}{amount}{verify_key})

Response

PG responds JSON format to merchant upon a successful request

| Field Name | Data Type(Size) | M/O | Description |
|-------------|-----------------|-----|--|
| status | Boolean | М | true/false |
| qrcode_data | URL | М | QR-Code data. Available for status true. |
| qrcode_link | URL | М | Link to view QR-Code image. Available for status true. |
| error_code | Alphanumeric | М | Error code when status is false. |
| error_mesg | Text | М | Error description when status is false. |

| error_code | error_mesg | |
|------------|---|--|
| SQ001 | Missing required parameter (<fieldname>).</fieldname> | |
| SQ002 | System is busy now, temporarily out of service. Please try again later. | |

| SQ003 | Merchant info not found. |
|-------|--|
| SQ005 | Invalid checksum value. |
| SQ004 | Currency not supported. |
| SQ006 | Your account doesn't subscribe to this channel. Please contact our support teams to enable this. |

Channel Status API

This API returns the availability of all channels enabled for a particular merchantID

Request

URL: https://pay.merchant.razer.com/RMS/API/chkstat/channel_status.php

Method: POST

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------|--|
| merchantID | Alphanumeric, 32 chars | Merchant ID in PG system. |
| datetime | YYYYMMDDHHmmss | Request date & time, e.g. 20161202153423 |
| skey | Alphanumeric | For merchant access verification purpose |

Response (JSON format)

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------|---|
| status | Boolean | true/false |
| result | Object | [] |
| title | Alphanumeric | Display name of the payment method |
| status | Boolean | True = Bank/Channel is online or available
False = Bank/Channel is temporary offline/down for
maintenance |
| currency | Object | List of currency accepted by the payment method |
| channel_map | Object | [] |
| integration_type | Object | Hosted, seamless, seamlesspayment, direct |
| request | Alphanumeric | Channel name submitted during request |
| response | Alphanumeric | Channel name submitted during response |
| logo_url_16x16 | Alphanumeric | Link to channel logo in size 16x16 |
| logo_url_24x24 | Alphanumeric | Link to channel logo in size 24x24 |
| logo_url_32x32 | Alphanumeric | Link to channel logo in size 32x32 |
| logo_url_120x43 | Alphanumeric | Link to channel logo in size 120x43 |
| channel_type | Text | IB - internet banking,
CC - credit card,
EW - ewallet ,
OTC - over the counter |
| googlepay_enabled | Boolean | 1 = Google Pay is enabled for this channel
0 = Google Pay is NOT enabled for this channel |

| applepay_enabled | 1= Apple Pay is enabled for this channel
0 = Apple Pay is NOT enabled for this channel |
|------------------|---|
| | 7 Apple 1 dy 10 110 1 chapied for this chamier |

Formula of skey

```
skey = HMAC_SHA256( {datetime}{merchantID}, {verify_key} )
```

Example (in JSON format)

The following example might not be accurate and please only take it as a format reference

```
"status": true,
"result": {
    "title": "Affin Online",
    "status": 1,
    "currency": {
      "MYR",
      "USD",
    "channel_map": {
      "hosted": {
       "request": "affin-epg",
       "response": "affin-epg"
      "seamless": {
       "request": "affinonline",
        "response": "affin-epg"
      "old_direct": {
       "request": "affin-epg",
       "response": "affin-epg"
      "direct": {
        "request": "AFFIN-EPG",
        "response": "AFFIN-EPG"
    "logo_url_16x16": "https://d2x73ruoixi2ei.cloudfront.net/images/logos/channels/24/affin.gif",
    "logo_url_24x24": "https://d2x73ruoixi2ei.cloudfront.net/images/logos/channels/24/affin.gif",
    "logo_url_32x32": "https://d2x73ruoixi2ei.cloudfront.net/images/logos/channels/32/affin.gif",
    "logo_url_120x43": "https://d2x73ruoixi2ei.cloudfront.net/images/logos/channels/120/affin.gif",
    "channel_type": "IB"
```

Channel Success Rate API

In order to know the healthiness of payment channels, this API allows system-wide or merchant-only successful rate (OK rate) of a channel in real time for frequently used payment channels. Merchants can always check the latest 1 hour system-wide OK rate of the channel (card payment and internet banking) and a few window sizes, i.e. the latest 1, 3, 6, and 12 hours for merchant-only OK rate for all channels, including Razer Cash. Keep in mind that Razer Cash is not a real-time payment channel and sampling is based on payment request time and not the time that payment is made.

This API gives a worst case scenario result, please DO NOT approach the RMS support team if your number of transactions of a specific payment channel is less than 30 or if there are multiple failure attempts from the same buyer. Try to optimize your OK rate (success rate or SR) if yours are far below the system-wide level. Frequent query on merchant-only OK rate might slow down your payment processing as well.

Prompt alert or warning instead of turning off the channel at 0% or low system-wide OK rate is always a best practice.

Request

URL: https://api.merchant.razer.com/RMS/API/chkstat/OK-rate.php

Method: GET

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--|---|
| domain | alphanumeric, 32 chars | Merchant ID in PG system. |
| reqTime | YYYYMMDDHHmmss | Request date & time, e.g. 20161202153423 |
| reqType | Global, Merchant | Global: system-wide OK rate
Merchant: merchant only OK rate |
| skey | 32 chars hexadecimal string | For merchant access verification purpose |
| duration | 1, 3, 6, 12
(for reqType=merchant only) | Latest sampling window size in HOUR for merchant-only request. If the total sampling number is less than 30, it has less reference value due to the low statistical significance and n/a will be given |

Response (JSON format)

| Variable / Parameter | Type Format / Max Length | Description / Example | |
|----------------------|---|--|--|
| StatTime | YYYYMMDDHHmmss | Status date & time, e.g. 20161202153435 | |
| OK-rate | { "Channel 1" : OK_rate1, "Channel 2" : OK_rate2, | Channel name with successful rate measure at the StatTime. Please refer to "Direct Server API" or "Seamless Integration" for channel name. | |

```
{
    "credit": 75,
    "maybank2u": 70,
    "cimbclicks": 65,
    "fpx": 56,
    "hlb": 60,
    "rhb": 52,
    ...
    "fpx_pbb": 45,
    "fpx_bimb": 80,
}

where the OK rate is an integer range from 0-100.
Channel might be added/removed without prior notice.
```

Formula of skey

skey = md5({domain}{secret_key}{reqTime}{reqType})

Card BIN information API

To retrieve the card BIN information such as card type and the issuer information.

Request

URL: https://api.merchant.razer.com/RMS/query/q_BINinfo.php

Method: GET

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|-----------------------------|--|
| domain | alphanumeric, 32 chars | Merchant ID in PG system. |
| skey | 32 chars hexadecimal string | For merchant access verification purpose |
| BIN | 6-digit numeric | First 6-digit number of the PAN, e.g. 519603 |

Response (JSON format)

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--|---|
| card_brand | VISA / MASTERCARD / AMEX / UP / JCB / DC | MASTERCARD |
| card_issuer | ans{100} | CIMB BANK BERHAD |
| debit_credit | DEBIT / CREDIT / PREPAID / N/A | CREDIT |
| card_type | ans{100} | STANDARD other example like GOLD, PLATINUM, CLASSIC, co-brand name is available |
| card_country | ISO-3166-1 alpha-2 | MY |
| islamic_card | Y/N | Υ |

PG will respond the following in JSON format once error occurs (negative result)

| Field Name Data Type(Size) | | Description | | |
|----------------------------|-----------|---------------------|--|--|
| error_code | an{7} | Refer to Appendix A | | |
| error_desc | ans{1255} | Refer to Appendix A | | |

Formula of skey

skey = md5({domain}{secret_key}{BIN})

Appendix A: Error Code & Description in JSON

| error_code | error_desc | | | |
|------------|---|--|--|--|
| QBIN001 | Missing required Parameter. | | | |
| QBIN002 | Merchant info not found. | | | |
| QBIN003 | Invalid skey. | | | |
| QBIN004 | Card BIN info not found. | | | |
| QBIN005 | System is busy now, temporarily out of service. Please try again later. | | | |

Foreign Exchange Rate API

In order to know the current foreign exchange (FX) of each supported currency, this API allows merchants to know the current exchange rate for each supported currency.

Request

URL: https://api.merchant.razer.com/RMS/query/q_fx_rate.php

Method: GET

| Variable / Parameter | Type Format / Max Length | Description / Example | |
|----------------------|-----------------------------|--|--|
| domain | alphanumeric, 32 chars | Merchant ID in PG system. | |
| reqtime | YYYYMMDD | Request date & time, e.g. 20161202 | |
| source | optional, 1-digit integer | Predefined value as below: 1. BNM 2. Maybank | |
| skey | 32 chars hexadecimal string | For merchant access verification purpose | |

Response (JSON format)

| Variable / Parameter | Type Format / Max Length | Description / Example |
|-------------------------|--------------------------------|---|
| base | 3 chars ISO-4217 currency code | MYR |
| reqtime | YYYYMMDD | 20170128 |
| rate | float(2,4) in array | 1.2888 |
| [currency] under "rate" | 3 chars ISO-4217 currency code | Currency to compared with MYR (USD,SGD,etc) |

Formula of skey

```
skey = md5( {domain}{verify_key}{reqTime} )
```

Will list out the list of currency, exchange rate compared to 1 MYR with rate expiration date/time.

```
{
    "base" : "MYR"
    "reqtime" : "20170128"
    "rate":{
    "USD":{"units":1,"rates":0.24425989252565},
    ...
}
```

Void Pending-Cash API

For merchants to cancel and void the cash payment request order, before getting paid or the expiry time, and force-to-expired.

Request

URL: https://api.merchant.razer.com/RMS/API/VoidPendingCash/index.php

Method: POST or GET

| Field Name | Data Type(Size) | M/O | Description |
|------------|-----------------|-----|---|
| tranID | n{120} | М | PG Transaction ID |
| amount | n{10,2} | М | The total amount to be paid in one purchase order. 2 decimal points, comma(,) is not allowed. |
| merchantID | an{132} | М | Merchant ID provided by PG |
| checksum | an{32} | М | This is request integrity protection hash string. |

Formula of checksum

checksum = md5({tranID}{amount}{merchantID}{verify_key})

Response

PG responds JSON format to merchant upon a successful request

| Field Name | Data Type(Size) | M/O | Description |
|------------|-----------------|-----|--|
| StatCode | n{2} | М | 00 = Success (voided) 11 = Missing required parameter (<fieldname>). 12 = Merchant info not found 13 = Invalid checksum value. 14 = Transaction not found 15 = Transaction not Pending 99 = System is busy now, temporary out of services. Please try again later.</fieldname> |
| tranID | n{120} | 0 | PG Transaction ID |
| orderid | an{132} | 0 | Merchant order |
| amount | n{10,2} | 0 | The total amount to be paid in one purchase order |
| merchantID | an{132} | 0 | Merchant ID provided by PG |
| channel | an{132} | 0 | Channel references for the merchant system |

Void Pending Non-Cash API

For merchants to cancel and void the non-cash payment request order (generated from direct server API), before getting paid within the expiry time, and force-to-expired.

Request

URL: https://api.merchant.razer.com/RMS/API/VoidPendingNonCash/index.php

Method: POST or GET

| Field Name | Data Type(Size) | M/O | Description |
|-------------|-----------------|-----|---|
| ReferenceNo | an{132} | М | Merchant reference no |
| TxnChannel | an{132} | М | Channel references |
| TxnAmount | n{10,2} | М | The total amount to be paid in one purchase order. 2 decimal points, comma(,) is not allowed. |
| MerchantID | an{132} | М | Merchant ID provided by PG |
| Signature | an{32} | М | This is a request integrity protection hash string. |

Formula of Signature

Signature= hash_mac("sha256", {ReferenceNo}{TxnAmount}{MerchantID}, {verify_key})

Response

PG responds JSON format to merchant upon a successful request

| Field Name | Data Type(Size) | M/O | Description |
|-------------|-----------------|-----|--|
| StatCode | n{2} | М | 00 = Success (canceled) 11 = Missing mandatory parameter. 12 = Merchant info not found 13 = Invalid checksum value. 14 = Transaction not found 15 = Transaction already in captured or failed status.Not voidable. 99 = System is busy now, temporarily out of service. Please try again later. |
| ReferenceNo | an{132} | 0 | Merchant reference no |
| TxnAmount | n{10,2} | 0 | The total amount to be paid in one purchase order |
| MerchantID | an{132} | 0 | Merchant ID provided by PG |
| TxnChannel | an{132} | 0 | Channel references for the merchant system |

Recurring Plan API

For merchants to retrieve recurring plans info which were created from the merchant portal.

Request

URL: https://api.merchant.razer.com/RMS/API/Recurring/get_plans.php

Method: POST or GET

| Field Name | Data Type(Size) | M/O | Description |
|----------------------|-----------------|-----|---|
| domain | an{132} | М | Merchant ID provided by PG |
| charge_on_endofmonth | a{1} | 0 | Predefined value as below: 1. Y 2. N |
| period | a{38} | 0 | Predefined value as below: 1. month 2. week 3. day 4. year 5. quarter 6. halfyear 7. bimonth 8. biweek |
| cycle_term | n{110} | 0 | Billing cycle (E.g. '6', '12', '24') |
| status | a{23} | 0 | Predefined value as below: 1. On 2. Off 3. NA |
| skey | an{32} | М | This is request integrity protection hash string. |

Response (JSON format)

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------|---|
| planID | n{110} | Unique ID for each plan. |
| plan_name | ans{164} | Plan name. |
| plan_desc | ans{1255} | Plan description. |
| amount | n{10,2} | The total amount to be paid in each cycle. |
| period | a{38} | Predefined value as below: 1. month 2. week |

| | | 3. day4. year5. quarter6. halfyear7. bimonth8. biweek |
|----------------------|--------|--|
| status | a{23} | Predefined value as below: 1. On 2. Off 3. NA |
| cycle_term | n{110} | Billing cycle (E.g. '6', '12', '24') |
| charge_on_endofmonth | a{1} | Predefined value as below: 1. Y 2. N |

Formula of skey

skey = md5({domain}{secret_key}{charge_on_endofmonth}{period}{cycle_term}{status})

PG will respond the following in JSON format once error occurs (negative result)

| No | Field Name | Data Type(Size) | Description |
|----|------------|-----------------|---------------------|
| 1 | error_code | an{7} | Refer to Appendix A |
| 2 | error_desc | ans{1255} | Refer to Appendix A |

Appendix A: Error Code & Description in JSON

| error_code | error_mesg |
|------------|--|
| PLAN001 | Missing required parameter (<fieldname>).</fieldname> |
| PLAN002 | Merchant info not found. |
| PLAN003 | Invalid skey. |
| PLAN004 | Plan not found. |
| PLAN005 | System is busy now, temporary out of services. Please try again later. |
| PLAN006 | Invalid parameter value (<fieldname>).</fieldname> |

Payment Token API

Available upon request

Token API - Generate Token / Provisioning

For merchants to generate the payment token without payment authorization.

Request

URL: https://pay.merchant.razer.com/RMS/API/token/index.php

Method: POST

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------|--|
| action | as{32} | Action of this request - ADD_TOKEN |
| billing_name | as{32} | Buyer's full name |
| billing_mobile | ns{32} | Buyer's mobile number or contact number. |
| billing_email | ans{128} | Buyer's email address. |
| merchantID | ans{32} | Merchant ID in PG system. |
| token_type | ans{1} {Optional} | Based on the recurring token type {T} |
| detail | ans | Information that will be used to generate a token.
Refer to Token API - detail . |
| signature | ans | For merchant access verification purpose |

Response (JSON format)

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------|--|
| status | a{5} | true - success return
false - failed return |
| merchantID | ans{32} | Merchant ID in PG system. |
| billing_name | as{32} | Buyer's full name |
| billing_mobile | ns{32} | Buyer's mobile number or contact number. |
| billing_email | ans{128} | Buyer's email address. |

| token | ans{1100} | Card number that has been tokenized by Payment
Gateway |
|------------|-----------|---|
| bin | n{68} | First 6 or 8 digit of the card number |
| bin4 | n{4} | Last 4 digit of the card number |
| expYear | n{4} | Card expiry year |
| expMonth | n{2} | Card expiry month, e.g. February is 02 |
| token_type | ans{1} | Based on the recurring token type { T } |

Formula of signature

```
signature = hash_hmac( 'SHA256', {action}{billing_email}{billing_mobile}{billing_name}{detail}{merchantID}{token_type}, {verify_key})
```

Example (in JSON format)

The following example might not be accurate and please only take it as a format reference

```
{
    "status": true,
        "merchantID": "merchantIDSB",
        "billing_name": "abc",
        "billing_email": "abc@email.com",
        "billing_mobile": "012-3456789",
        "token": "1234567890",
        "bin": "123456",
        "bin": "8901",
        "expYear": "2099",
        "expMonth": "12",
        "token_type": "T",
}
```

Token API - Retrieve Token

For merchants to retrieve the token based on the buyer information.

Request

URL: https://api.merchant.razer.com/RMS/API/token/index.php

Method: POST

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------|--|
| action | as{32} | Action of this request - GET_TOKEN |
| billing_name | as{32} | Buyer's full name |
| billing_mobile | ns{32} | Buyer's mobile number or contact number. |
| billing_email | ans{128} | Buyer's email address. |
| merchantID | ans{32} | Merchant ID in PG system. |
| token_type | ans{1} {Optional} | Based on the recurring token type { T, F, E, K, A } Respond all token type if not provided |
| signature | ans | For merchant access verification purpose |

Response (JSON format)

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------|---|
| status | a{5} | true - success return
false - failed return |
| tokens | object | [] |
| token | ans{1100} | Card number that has been tokenized by Payment
Gateway |
| bin | n{68} | First 6 or 8 digit of the card number |
| bin4 | n{4} | Last 4 digit of the card number |
| expYear | n{4} | Card expiry year |
| expMonth | n{2} | Card expiry month, e.g. February is 02 |
| token_type | ans{1} | Based on the recurring token type { T, F, E, K, A } |

| card_brand | ans{20} | Card brand
VISA / MASTERCARD / AMEX / UP / JCB / DC |
|-------------|---------|--|
| card_issuer | ans{20} | Bank name which issues the card |
| card_type | ans{10} | Card type - PREPAID , DEBIT, CREDIT |

Formula of signature

```
signature = hash_hmac( 'SHA256', {action}{billing_email}{billing_mobile}{billing_name}{merchantID}{token_type}, {verify_key})
```

Example (in JSON format)

The following example might not be accurate and please only take it as a format reference

Token API - Retrieve Buyer Information

Available upon request

For merchants to retrieve the token information such as credit card first 6 and last 4 digit, credit card exp date, card type and the issuer information.

Request

URL: https://api.merchant.razer.com/RMS/API/token/index.php

Method: POST

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------|--|
| action | as{32} | Action of this request - GET_TOKEN_DETAILS |
| token | ans{36} | Credit Card token |
| merchantID | ans{32} | Merchant ID in PG system. |
| signature | ans | For merchant access verification purpose |

Response (JSON format)

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------|--|
| status | a{5} | true - success return
false - failed return |
| bin | n{6} | First 6 digit of card number |
| bin4 | n{4} | Last 4 digit of card number |
| card_brand | ans{20} | Card brand
VISA / MASTERCARD / AMEX / UP / JCB / DC |
| card_type | ans{20 | Card type - PREPAID , DEBIT, CREDIT |
| expYear | n{4} | Card expiry year |
| expMonth | n{2} | Card expiry month |
| billing_name | a{32} | Buyer's full name |
| billing_mobile | ns{32} | Buyer's mobile number or contact number. |
| billing_email | ans{128} | Buyer's email address. |
| token_type | a{1} | Payment Channel |

Formula of signature

signature = hash_hmac('SHA256', {action}{merchantID}{token}, {verify_key})

Token API - Edit Token Details

Available upon request

For merchants to modify the token detail based on the generated active token.

Request

URL: https://pay.merchant.razer.com/RMS/API/token/index.php

Method: POST

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------|--|
| action | as{32} | Action of this request - EDIT_TOKEN_DETAILS |
| billing_name | as{32} | Original buyer's full name |
| billing_mobile | ns{32} | Original buyer's mobile number or contact number. |
| billing_email | ans{128} | Original buyer's email address. |
| merchantID | ans{32} | Merchant ID in PG system. |
| token | ans{36} | Credit Card token |
| detail | ans | Information that will be used to edit token details.
Refer to Token API - detail . |
| signature | ans | For merchant access verification purpose |

Response (JSON format)

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------|--|
| status | a{5} | true - Success edit token detail
false - Failed edit token detail |

Formula of signature

signature = hash_hmac('SHA256', {action}{billing_email}{billing_mobile}{billing_name}{detail}{merchantID}{token}, {secret_key})

Token API - Delete Token

Available upon request

For merchants to delete the token based on buyer information.

Request

URL: https://api.merchant.razer.com/RMS/API/token/index.php

Method: POST

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------|--|
| action | as{32} | Action of this request - DELETE_TOKEN |
| token | ans{36} | Credit Card token |
| billing_name | as{32} | Buyer's full name |
| billing_mobile | ns{32} | Buyer's mobile number or contact number. |
| billing_email | ans{128} | Buyer's email address. |
| merchantID | an{32} | Merchant ID in PG system. |
| signature | ans | For merchant access verification purpose |

Response (JSON format)

| Variable / Parameter | Type Format / Max Length | Description / Example |
|----------------------|--------------------------|--|
| status | a{5} | true - Success delete token
false - Failed delete token |

Formula of signature

signature = hash_hmac('SHA256',
{action}{billing_email}{billing_mobile}{billing_name}{merchantID}{token}, {secret_key})

Token API - Error Handling

RMS will respond the following in JSON format once error occurs (negative result)

| Field Name | Data Type(Size) | Description |
|------------|-----------------|------------------------------|
| status | a{5} | false - request failed/error |
| error_code | n{4} | Refer to Appendix A |
| error_desc | ans{1255} | Refer to Appendix A |

Token Error Code & Description in JSON

| error_code | error_mesg |
|------------|--|
| TK01 | Invalid parameter value ({parameter_name}) |
| TK02 | Missing parameter value ({parameter_name}) |
| TK03 | Merchant info not found |
| TK04 | Incorrect signature |
| TK05 | Record not found |

Token API - detail

Merchants will include the following information during request the following token action.

| Token Type | Variable /
Parameter | Type Format /
Max Length | Description / Example | |
|------------|---|-----------------------------|--|--|
| ADD_TOKEN | | | | |
| Т | cardnumber | n{16} | Card number to tokenize. | |
| | month | MM{2} | Expiry month | |
| | year | YYYY{4} | Expiry year | |
| | Procedure to generate: 1. Request RMS to provide RSA public key. 2. JSON encode the variable and its data. 3. Using Open SSL to encrypt the JSON information with an RSA public key. 4. Base64 encode the encrypted data generated from the OpenSSL public key encryption. 5. Add the output in the detail variable. | | ata.
N information with an RSA public key.
generated from the OpenSSL public key encryption. | |
| | | EDIT_TOKEN | _DETAILS | |
| Т | billing_name | as{32} | Buyer's full name | |
| | billing_mobile | ns{32} | Buyer's mobile number or contact number. | |
| | billing_email | ans{128} | Buyer's email address. | |
| | Procedure to generate: 1. JSON encode the variable and its data. 2. Add the encoded JSON in the detail variable. | | | |

ExtraP

Contains additional information provided by the payment processor. Parameter ExtraP is a JSON encoded string.

| Variable / Parameter | Description / Example | | |
|-----------------------|--|--|--|
| token | 16-digit card token for merchant to store for recurring MIT (merchant initiated transaction) | | |
| fraudscreen | 1-digit integer, i.e. 1=Unknown, 2=Passed, 3=Alert, 4=Suspicious, 5=Fraud | | |
| fpx_txn_id | FPX transaction ID | | |
| fpx_buyer_name | FPX buyer name | FPX buyer name | |
| buyer_name | buyer name (if any for non-FPX channel) | | |
| ccbrand | Visa, MasterCard, AMEX | | |
| bank_issuer | The issuing bank or institution | | |
| ccbin | Issuer/Bank identification number, first 6- | digit | |
| cclast4 | Last 4-digit of card number | | |
| cctype | Credit, Debit, Prepaid | | |
| cccountry | Card issuing country | | |
| paymentMethod | ApplePay,GooglePay | | |
| grabpay_indicator | GPWALLET, INSTALMENT_4, POSTPAID | | |
| duitnowqr_indicator | DuitNow Ref ID | | |
| ProcessorResponseCode | Authorization response code | | |
| ProcessorCCVResponse | Credit Card validation response code | | |
| | Value | Description | |
| | M | Indicate cvc match | |
| | N | Indicate cvc no match | |
| | Р | Indicate cvc not process, the card scheme or issuer was unable to verify the cvc value | |
| | S Indicate cvc should be on the card, because card scheme or issuer wants perform cvc verification | | |
| | U Indicate cvc unverified, because issuer does no participate in cvc service | | |

| SchemeTransactionID | Transaction ID provided I | Transaction ID provided by CC Schemes. | | | | |
|---|---|---|----------------------|--|--|--|
| MerchantAdviceCode | | MasterCard issuers use the Merchant Advice Code (MAC) in authorization request responses to communicate with merchants about a cardholder's account | | | | |
| | Value | | Description | Description | | |
| | 01 | 01 | | New account information available | | |
| | 02 | 02 | | Cannot approve at this time, try again later | | |
| | 03 | | Do not try again | | | |
| | 04 | | Token requirementype | ents not fulfilled for this token | | |
| | 21 | | Payment Cancel | lation | | |
| | 22 | | Merchant does r | not qualify for product code | | |
| | | MyDebit, JCB, and American Express) indicating the outcome of authentication attempted on transactions enforced by 3DS | | | | |
| | | Mastercard | Visa | MyDebit | | |
| | Cardholder
authentication
successful | 02 | 05 | 15 | | |
| | Attempted to | 01 | 06 | 16 | | |
| | authenticate the cardholder | | | | | |
| | | 00 | 07 | 17 | | |
| AvsStreet | Non-authenticated e-commerce | 00 | 07 | 17 | | |
| | Non-authenticated e-commerce transaction | | 07 | 17 | | |
| AvsZip | Non-authenticated e-commerce transaction Street validation status | status | 07 | 17 | | |
| AvsZip
AvsResponse | Cardholder Non-authenticated e-commerce transaction Street validation status Zip/Postcode validation | status | | | | |
| AvsZip AvsResponse captured_date | Cardholder Non-authenticated e-commerce transaction Street validation status Zip/Postcode validation st | status
atus
stion status updated fron | | | | |
| AvsStreet AvsZip AvsResponse captured_date store_id store_name | Cardholder Non-authenticated e-commerce transaction Street validation status Zip/Postcode validation status Association validation st | status
atus
stion status updated from
Cash 711) | | | | |

ERROR CODES

Payment Page

| Error Code | Description |
|------------|--|
| P01 | Timeout |
| P02 | Your transaction has been denied due to merchant account issue. Payment channel is not available for merchant. |
| P03 | Your payment info format not correct! Incorrect security hash string, check "vcode". |
| P04 | not allow to process
Incomplete buyer information, check bill_name, bill_mobile, bill_email, orderid, faked mobile such as
0123456789 will be blocked as well |
| P05 | Payment gateway not found Invalid payment gateway file or channel code. |
| P06 | System is busy now, temporary out of services. Please try again later. |
| P07 | Access Denied. Requestor not authorize. Merchant URL is not allowed to process payment or not yet registered with PG. |
| P08 | Invalid referral |
| P09 | Duplicate payment is not allowed for this merchant. Payment with same order ID and amount is not allowed to capture twice. Cash payment is not allowed to request twice. |
| P10 | Sorry, Your Credit Card Number or CVV or expiration date is not valid |
| P11 | Amount return from bank not match with PG system. |
| P12 | Signature from bank not match. |
| P13 | Currency not supported. |
| P14 | Transaction amount must more than CUR XXX.XX. |
| P15 | Transaction amount must less than CUR XXX.XX. |
| P16 | Invalid subMerchantID |
| P17 | Unable to retrieve the currency exchange rate |
| P18 | Empty currency rate |
| P21 | Massive errors detected from the same IP address |
| P22 | Massive errors detected from the same IP address |

| P33 | System is busy |
|-------|--|
| P44 | Bill description format incorrect |
| P45 | Subtotal amount not match with bill amount |
| P46 | Merchant is not allowed to use this payment method |
| P47 | Bank under maintenance |
| P48 | TxnType not supported for this channel |
| P49 | Original TransactionID not found |
| P403 | Invalid payment URL |
| P404 | Invalid merchant ID |
| P990 | Sorry, we're not able to process your request now. You may close this window. |
| P991 | System temporary not available due to security issue |
| P1813 | URL is not allowed |
| R01 | Error in payment process due to empty key |
| T01 | Tokenization error |
| 01 | Unsuccessful Timeout due to user did not authorize the payment |
| 33 | Transaction declined as the payment window has expired |
| 34 | Transaction refunded/voided due to success payment exceeding payment window |
| 99 | Record not found Timeout due to user did not proceed with the payment |
| 999 | Transaction is blocked Due to one of the reason: country restriction, blacklist, exceeds transaction limit |

3DS Error

| Error Code | Description |
|------------|--|
| P3011 | This merchant only allows 3DS card |
| P3089 | Invalid 3DS request |
| P3099 | Card not authorized or invalid BIN |
| MD2310 | rejected due to non-3DS (a feature of PG to block non-3DS transaction) |

Payment Status Query (PSQ) Error

Different query status API uses different standard error code due to legacy reasons. Developer may group these error codes based on the grouping in the following table:

- **Direct Status Requery API -** 5 digit number . For eg : Q00001,Q00002.
- Indirect Status Requery API 2 3 digit number. For eg: Q01, Q02, Q203

| Error Code | Description |
|---|--|
| Q01 / Q00001 | Missing Required Parameter ({parameter_name}). |
| Q02 / Q00002 | Invalid Parameter Value ({parameter_name}). |
| Q03 / Q00007 | System is busy now, temporary out of services. Please try again later. |
| Q04 / Q00003 | Merchant info not found. |
| Q05 / | Send result to merchant URL failed. |
| Q06 | Query period expired. No result available for transaction more than 7 days. |
| Q00008 | Error encountered due to external service disruption. Kindly retry. |
| Q99 | Service blocked due to massive connection. Please send only 1 request every 5 minutes. |
| Q101 / Q201 / Q00004 | Correct skey with invalid data |
| Q00004 / Q102 / Q202 / Q302 / Q402 / Q502 | Incorrect skey |
| Q203 / Q303 / Q00005 | Transaction record not found |
| Q401 | Delimiter error |

Error in Merchant Admin

| Error Code | Description |
|------------|-------------------------------------|
| M0001 | Inactive merchant account |
| M0002 | Frozen merchant account |
| M0003 | Merchant account has been purged |
| M0098 | Invalid merchant ID |
| M0099 | Unable to process the request |
| M1007 | Invalid bank account number |
| M1008 | Invalid email |
| M1009 | Invalid bank account number & email |

Error Codes from Payment Channel

PG will add the following prefix to all card and certain internet banking error codes

| Credit Card (Paymex, MIGS, etc) | CC_ |
|---------------------------------|------|
| FPX Internet Banking | FPX_ |

Error Code | Description

Prepaid/Debit/Credit Card via Paymex (Visa/MasterCard)

1XX | Invalid input to 3D Secure MPI

2XX | Error related to 3D authentication

3XX | Error related to authorization

4XX | System error or timeout

| Error
Code | Description | Action / Remarks | |
|---------------|---|--|--|
| 000 | Transaction is successful | Merchant to display the confirmation page to cardholder | |
| 101 | Invalid field passed to 3D
Secure MPI | Merchant needs to check error description to find out what is wrong with the field. Authorization/Authentication not carried out. | |
| 201 | Invalid ACS response format.
Transaction is aborted. | Retry the transaction. If error persists, contact the issuing bank. | |
| 202 | Cardholder failed the 3D authentication, password entered by cardholder is incorrect and transaction is aborted | Merchant to display error page to cardholder | |
| 203 | 3D PaRes has invalid signature. Transaction is aborted | Retry the transaction. If error persists, contact the issuing bank. | |
| 300 | Transaction not approved | Transaction has failed authorization, e.g. due to insufficient credit, invalid card number, etc. The actual response code provided by acquiring host can be found via the View Transaction History web page available to merchants. | |
| 301 | Record not found | Merchant/User has submitted a transaction with invalid purchase ID Merchant/User tried to reverse a previously declined transaction | |
| 302 | Transaction not allowed | Purchase ID not unique due to mismatched card number and/or transaction amount | |

| | | System unable to process reversal due to transaction has been settled System unable to process reversal due to transaction type is CAPS System unable to process previously voided transaction |
|-----|---------------------------------------|--|
| 303 | Invalid Merchant ID | Not a valid merchant account |
| 304 | Transaction blocked by error 901 | Merchant to report error to acquiring bank |
| 305 | Merchant password is not available | The error code will be returned if merchant password is not available during the VISA 3D authentication, |
| 306 | Merchant exceeded count limit | The error code will be returned if the merchant daily transaction count exceeded the predefined daily transaction count limit. |
| 307 | Merchant exceeded amount limit | The error code will be returned if the merchant daily transaction amount exceeded the predefined daily transaction amount limit. |
| 308 | Merchant exceeded group count limit | The error code will be returned if the merchant transaction exceeded the predefined merchant organization transaction count limit. |
| 309 | Merchant exceeded group amount limit | The error code will be returned if the merchant transaction exceeded the predefined merchant organization transaction amount limit. |
| 310 | Request signature is not available | The PX_SIG is not append on the PxReq message or PX_SIG is blank |
| 311 | Request signature verification failed | The signature of the PxReq is not match with the PxReq message |
| 900 | 3D Transaction timeout | Timeout of 3D transaction due to late response from Issuer ACS, after the predefined 3D timeout set in the application. |
| 901 | System Error | System unable to complete transaction. Merchant to report error to acquiring bank. |
| 902 | Time out | Issuing/acquiring host timeout, transaction is not approved |
| 903 | Pxtems no response | Transaction has failed to get response from MPI links. The service not available due to: Database connection error Network connection error |

Host Error

- 00 | Successful approval/completion or that V.I.P. PIN verification is valid
- 01 | Refer to card issuer
- 02 | Refer to card issuer, special condition
- 03 | Invalid merchant or service provider
- 04 | Pickup card
- 05 | Do not honor / Incorrect CVV or 3D password
- 06 | Error
- 07 | Pickup card, special condition (other than lost/stolen card)
- 10 | Partial Approval-Private label
- 11 | V.I.P. approval
- 12 | Invalid transaction
- 13 | Invalid amount (currency conversion field overflow. Visa Cash-invalid load mount)
- 14 | Invalid account number (no such number)
- 15 | No such issuer
- 19 | Re-enter transaction
- 21 | No action taken (unable to back out prior transaction)
- 25 | Unable to locate record in file, or account number is missing from the inquiry
- 28 | File is temporarily unavailable
- 41 | Pickup card (lost card)
- 43 | Pickup card (stolen card)
- 51 | Insufficient funds

- 52 | No checking account
- 53 | No savings account
- 54 | Expired card
- 55 | Incorrect PIN (Visa Cash-invalid or missing S1 signature)
- 57 | Transaction not permitted to cardholder (Visa Cash-incorrect routing, not a load request)
- 58 | Transaction not allowed at terminal
- 59 | Suspected fraud"; break;
- 61 | Activity amount limit exceeded
- 62 | Restricted card (for example, in Country Exclusion table)
- 63 | Security violation
- 65 | Activity count limit exceeded
- 75 | Allowable number of PIN-entry tries exceeded
- 76 | Unable to locate previous message (no match on Retrieval Reference number)
- 77 | Previous message located for a repeat or reversal, but repeat or reversal data are in consistent with original message
- 80 | Invalid date (For use in private label card transactions and check acceptance transactions)
- 81 | PIN cryptographic error found (error found by VIC security module during PIN decryption)
- 82 | Incorrect CVV/iCVV
- 83 | Unable to verify PIN
- 85 | No reason to decline a request for account number verification or address verification
- 91 | Issuer unavailable or switch inoperative (STIP not applicable or available for this transaction)
- 92 | Destination cannot be found for routing
- 93 | Transaction cannot be completed; violation of law
- 96 | System malfunction System malfunction or certain field error conditions
- N0 | Force STIP
- N3 | Cash service not available
- N4 | Cash request exceeds issuer limit
- N7 | Decline for CVV2 failure
- P2 | Invalid biller information
- P5 | PIN Change/Unblock request declined
- P6 I Unsafe PIN

Card via MIGS (Visa/MasterCard)

- 0 | Transaction Successful
- ? | Transaction status is unknown
- 1 | Unknown Error
- 2 | Bank Declined Transaction
- 3 | No Reply from Bank
- 4 | Expired Card
- 5 | Insufficient funds
- 6 | Error Communicating with Bank
- 7 | Payment Server System Error
- 8 | Transaction Type Not Supported
- 9 | Bank declined transaction (Do not contact Bank)
- A | Transaction Aborted
- C | Transaction Cancelled
- D | Deferred transaction has been received and is awaiting processing
- F | 3D Secure Authentication failed
- I | Card Security Code verification failed
- L I Shopping Transaction Locked (Please try the transaction again later)
- N | Cardholder is not enrolled in Authentication scheme
- P | Transaction has been received by the Payment Adaptor and is being processed
- R | Transaction was not processed Reached limit of retry attempts allowed
- S | Duplicate SessionID (OrderInfo)
- T | Address Verification Failed
- U | Card Security Code Failed
- V | Address Verification and Card Security Code Failed
- Y | The cardholder was successfully authenticated.
- E | The cardholder is not enrolled.
- N | The cardholder was not verified.
- U | The cardholder's Issuer was unable to authenticate due to some system error at the Issuer.
- F | There was an error in the format of the request from the merchant.
- A | Authentication of your Merchant ID and Password to the ACS Directory Failed.
- D | Error communicating with the Directory Server.
- C | The card type is not supported for authentication.
- S | The signature on the response received from the Issuer could not be validated.

```
P | Error parsing input from Issuer.
I | Internal Payment Server system error.
05 | Fully Authenticated
06 | Not authenticated (cardholder not participating), liability shift
07 | Not authenticated due to a system problem
Card via eBPG (Visa/MasterCard)
         Process with No Error.
1001
          Error setting mandatory fields
1002
         Invalid value for TRANSACTION_TYPE! Acceptable Value: QUERY=1
1003
         This transaction is not authorized
1004
          Error setting mandatory fields
1005
         Invalid MERCHANT_ACC_NO! Unable to find merchant with provided MERCHANT_ACC_NO.
1006
          The status of this MERCHANT_ACC_NO is suspended! All transactions are not allowed temporary. Please check with
administrator for the status.
1007
         The status of this MERCHANT_ACC_NO is still pending and not yet activated. Please check with administrator for the
status.
1008
         The status of this MERCHANT_ACC_NO is invalid! Please check the merchant setting.
1009
          The setting of this MERCHANT_ACC_NO does not allow the requestedtransaction type. Please check the merchant
setting.
1010
          The setting of this MERCHANT_ACC_NO do not allow transaction request from this IP address. Please checks the
merchant allow IP setting.
         Error setting mandatory fields
1011
1012
         Invalid value for AMOUNT
1013
          Error setting mandatory fields
1014
          Error setting mandatory fields
1015
         Error setting mandatory fields
1016
         Error setting mandatory fields
1017
         Invalid value for CARD_NO. CARD_NO must be numeric and with valid length!
1018
         Invalid value for CARD_EXP_MM. CARD_EXP_MM must be numeric and with valid length!
1019
         Invalid value for CARD_EXP_YY. CARD_EXP_YY must be numeric and with valid length!
1020
         Invalid value for CARD_CVC. CARD_CVC must be numeric and with valid length!
1021
         Invalid payment method. Please call bank to check Merchant Settings.
1022
         Amount has been over transaction limit for today. Please call bank to check Merchant Settings.
1023
          Transaction not permitted through this merchant type. Please call bank to check Merchant Settings.
1024
         This transaction is not allowed to void due to transaction has already settled or status is not Sale or Captured.
1025
         Error setting mandatory fields
1026
          Invalid Card Type. The card number is not match with the card type.
1027
1028
         Invalid Card Expired Month. CARD_EXP_MM must be from 01 to 12.
3001
          Error setting mandatory fields
3002
          Error setting mandatory fields
3003
         Error setting mandatory fields
3004
         Error setting mandatory fields
3005
          Invalid value for RESPONSE_TYPE for non-3D transaction! Acceptable Value: HTTP
3006
         Error setting mandatory fields
3007
         Invalid value for SECURE_SIGNATURE! Computed signature does not match one included in the request.
3008
          Invalid format for SECURE SIGNATURE! SECURE SIGNATURE must be length of 128
3009
         Unable to find the transaction record!
3010
         MERCHANT_ACC_NO not matched with previous submitted transaction request! To capture/query previous transaction
          AMOUNT not matched with previous submitted transaction request! To capture/query previous transaction
3011
3012
         CUSTOMER_ID not matched with previous submitted transaction request! To capture/query previous transaction
3013
          MERCHANT_TRANID not matched with previous submitted transaction request! To capture/query previous transaction
3014
          Insecure mode for RETURN_URL. Please specify an URL which uses HTTPS protocol!
3015
          Insecure mode for TXN_URL. Please specify an URL which uses HTTPS protocol!
4001
         Error setting mandatory fields
4002
          Error setting mandatory fields
          Duplicate MERCHANT_TRANID detected! Please ensure the MERCHANT_TRANID is always unique.
4003
4004
         Error setting mandatory fields
4005
         Error setting mandatory fields for 3D transaction
4006
          Error setting mandatory fields for 3D transaction
4007
         Error setting mandatory fields for 3D transaction
4008
         Error setting mandatory fields for 3D transaction
4009
         Error setting mandatory fields for 3D transaction
```

```
Error setting mandatory fields for 3D transaction
4011
         Error setting mandatory fields for 3D transaction
4012
         Error setting mandatory fields for 3D transaction
4013
         Transaction failed to send to bank host because the merchant 3D setting is (BLOCK_NON_3D)
4014
         Transaction failed to send to bank host because the merchant 3D setting is (ALLOW_ATTEMPTED_AND_3D)
5001
         Error setting mandatory fields for fraud risk detection
5002
         Error setting mandatory fields for fraud risk detection
5003
         Error setting mandatory fields for fraud risk detection
5004
         Error setting mandatory fields for fraud risk detection
5005
         Error setting mandatory fields for fraud risk detection
5006
         Error setting mandatory fields for fraud risk detection
5007
         Error setting mandatory fields for fraud risk detection
5008
         Transaction was blocked due to fraud level exceeded threshold limit.
5009
         Transaction was blocked due to blacklisted card detected.
5201
         Invalid payment indicator!
5202
         Mismatch number of Payment Indicator and Payment Criteria!
5203
         Invalid delimiter for Payment Indicator & Payment Criteria. Use â€~;' only.
5204
5205
         Transaction was blocked due to card range filtering based on merchant setting.
5206
         Transaction was blocked due to card range filtering by payment indicator.
5207
         Unknown card range indicator received.
5208
         Merchant not support instalment.
5209
         Merchant instalment plan not found.
5210
         Transaction amount is not within instalment allowed range.
5211
         Merchant transaction support instalment only.
5212
         Invalid merchant instalment plan format.
5213
         Invalid Promote Code.
5214
         Invalid Bin Filtering.
5215
         Promotion Exceed Maximum Usage.
5216
         No Promotion Found.
5217
         Error setting mandatory fields
5218
         Payment Link ID is empty
5219
         Sorry
5220
         The current payment link status is unavailable for process.
5221
         The payment link transaction has been expired.
5222
         The transaction is already been processed
5223
         Parameter length exceeds maximum length.
5224
         Instalment is not allowed.
5225
         Invalid incoming parameter name.
5226
         Not allowed to proceed void for instalment transaction.
6001
         Unable to get connection to MPI Server!
6002
         Time out occurred during communication with MPI Server!
6003
         Unable to update MPI Ref. No in system. Please try again.
6004
         There was an error occurred during 3D authentication with MPI. Please check logs for details.
6005
         Invalid message or response received from MPI. Please try again.
6006
         MPI Settings are not configured correctly. Please check MPI_HOST and MPI_PORT in system configuration.
6007
         Error occurred when trying to display ACS Form in web browser for 3D authentication. Please try again.
6008
         Problem occurred on MPI side
6009
         Unable to locate back transaction to update system after 3-D authentication process. Please try again.
6010
         Empty response received from MPI
6011
         MPI Code received is not allowed to proceed to process the transaction.
6012
         Transaction was aborted because 3-D authentication process is not completed.
6013
         Attempted duplicate submission of 3-D authentication result. Please try with new transaction.
6014
         MALL NAME is required for 3-D transaction. Please call bank to check Merchant Settings.
6015
         MALL URL is required for 3-D transaction. Please call bank to check Merchant Settings.
6016
         Invalid value for RESPONSE_TYPE for 3D transaction! Acceptable Value: HTTP only
         Time out occurred while waiting for ACS response.
6017
6018
         Error formatting mandatory field for 3D transaction while generating message to bank host
6019
         Error formatting mandatory field for 3D transaction while generating message to bank host
7001
         REFUND COMPLETED
8001
         This MERCHANT_ACC_NO is not authorized to proceed with this transaction via website! Please check the merchant
setting.
8002
         This MERCHANT_ACC_NO is not authorized to proceed with this transaction via batch upload! Please check the
merchant setting.
8003
         Exception while query Payment Server!
```

| 8004 | Exception while checking for fraud risk! |
|--------|--|
| 8005 | Settlement in Progress |
| 9999 | Internal Exception. Please call bank to report. |
| 9988 | Server Time Out Exception. |
| 9977 | Bank Connection Error! |
| 9966 | Reply from bank is empty/incorrect! |
| 9967 | Bank rejected transaction! |
| 9968 | Transaction Timeout. |
| 9969 | Payment Window Timeout. |
| 9955 | Error when trying to insert transaction table. Transaction ID is empty! |
| 9933 | Server interruption occurred during processing. Manual checking required. Please inform Administrator. |
| 9935 | Cancel payment by customer. |
| 51020 | DS/ACS communication error. |
| 62030 | VERes message: Unexpected VERes. |
| 64910 | PARes message: Received TX.status value = N (Authentication fail or cancelled). |
| 64930 | PARes message: Signature verification fail. |
| 333317 | Invalid {parameter name} : {required format} (This error code is for 3D2.0 additional parameters) |
| 333318 | Length of CARD_HOLDER_NAME must be at least 2. |
| 333319 | Time out occurred during communication with 3DSS Server! |
| 333320 | 3DS Server returned unsuccessful response {- error details if available} |
| 333321 | {Parameter name} JSON is invalid. |
| 333322 | 3D type not found in 3D type supported card scheme. |
| 333323 | Error setting mandatory fields for 3D2 transaction. MPI_CODE must be in length of 44 and contains "-" sign |
| | |

Card via Cybersource(Visa/MasterCard)

| Error Code | Error Prefix | Description |
|------------|------------------|--|
| 100 | SOK | Successful transaction |
| 101 | DMISSINGFIELD | Declined - The request is missing one or more fields |
| 102 | DINVALIDDATA | Declined - One or more fields in the request contains invalid data. |
| 104 | DDUPLICATE | Declined - The merchantReferenceCode sent with this authorization request matches the merchantReferenceCode of another authorization request that you sent in the last 15 minutes. |
| 110 | SPARTIALAPPROVAL | Partial amount was approved |
| 150 | ESYSTEM | Error - General system failure. |
| 151 | ETIMEOUT | Error - The request was received but there was a server timeout. This error does not include timeouts between the client and the server. |
| 152 | ETIMEOUT | Error: The request was received, but a service did not finish running in time. |
| 154 | ESYSTEM | Bad MaC key |
| 200 | DAVSNO | Soft Decline - The authorization request was approved by the issuing bank but flagged by Cybersource because it did not pass the Address Verification Service (AVS) check. |
| 201 | DCALL | Decline - The issuing bank has |

| | | questions about the request. You do not receive an authorization code programmatically, but you might receive one verbally by calling the processor. |
|-----|---------------|--|
| 202 | DCARDEXPIRED | Decline - Expired card. You might also receive this if the expiration date you provided does not match the date the issuing bank has on file. |
| 203 | DCARDREFUSED | Decline - General decline of the card. No other information provided by the issuing bank. |
| 204 | DCARDREFUSED | Decline - Insufficient funds in the account. |
| 205 | DCARDREFUSED | Decline - Stolen or lost card. |
| 207 | DCARDREFUSED | Decline - Issuing bank unavailable. |
| 208 | DCARDREFUSED | Decline - Inactive card or card not authorized for card-not-present transactions. |
| 209 | DCARDREFUSED | Decline - card verification number (CVN) did not match. |
| 210 | DCARDREFUSED | Decline - The card has reached the credit limit. |
| 211 | DCARDREFUSED | Decline - Invalid Card Verification
Number (CVN). |
| 220 | DCHECKREFUSED | Decline - Generic Decline. |
| 221 | DCHECKREFUSED | Decline - The customer matched an entry on the processor's negative file. |
| 222 | DCHECKREFUSED | Decline - customer's account is frozen |
| 230 | DCV | Soft Decline - The authorization request was approved by the issuing bank but flagged by Cybersource because it did not pass the Card Verification Number (CVN) check. |
| 231 | DINVALIDCARD | Decline - Invalid account number |
| 232 | DINVALIDCARD | Decline - The card type is not accepted by the payment processor. |
| 233 | DINVALIDDATA | Decline - General decline by the processor. |
| 234 | DINVALIDDATA | Decline - There is a problem with your Cybersource merchant configuration. |
| 235 | DINVALIDDATA | Decline - The requested amount exceeds the originally authorized amount. Occurs, for example, if you try |

| | | to capture an amount larger than the original authorization amount. |
|-----|-----------------|---|
| 236 | DINVALIDDATA | Decline - Processor failure. |
| 237 | DINVALIDDATA | Decline - The authorization has already been reversed. |
| 238 | DINVALIDDATA | Decline - The transaction has already been settled. |
| 239 | DINVALIDDATA | Decline - The requested transaction amount must match the previous transaction amount. |
| 240 | DINVALIDDATA | Decline - The card type sent is invalid or does not correlate with the credit card number. |
| 241 | DINVALIDDATA | Decline - The referenced request id is invalid for all follow-on transactions. |
| 242 | DNOAUTH | Decline - The request ID is invalid. |
| 243 | DINVALIDDATA | Decline - The transaction has already been settled or reversed. |
| 246 | DNOTVOIDABLE | Decline - The capture or credit is not voidable because the capture or credit information has already been submitted to your processor. Or, you requested a void for a type of transaction that cannot be voided. |
| 247 | DINVALIDDATA | Decline - You requested a credit for a capture that was previously voided. |
| 248 | DBOLETODECLINED | Decline - The boleto request was declined by your processor. |
| 250 | ETIMEOUT | Error - The request was received, but there was a timeout at the payment processor. |
| 251 | DCARDREFUSED | Decline - The Pinless Debit card's use frequency or maximum amount per use has been exceeded. |
| 254 | DINVALIDDATA | Decline - Account is prohibited from processing stand-alone refunds. |
| 268 | ETIMEOUT | Transaction Error: Unable to confirm, please contact Barclaycard help desk. Do not re-process |
| 400 | DSCORE | Soft Decline - Fraud score exceeds threshold. |
| 450 | DINVALIDADDRESS | Apartment number missing or not found. |

| 451 | DINVALIDADDRESS | Insufficient address information. |
|-----|-----------------------|--|
| | | |
| 452 | DINVALIDADDRESS | House/Box number not found on street |
| 453 | DINVALIDADDRESS | Multiple address matches were found. |
| 454 | DINVALIDADDRESS | P.O. Box identifier not found or out of range. |
| 455 | DINVALIDADDRESS | Route service identifier not found or out of range. |
| 456 | DINVALIDADDRESS | Street name not found in Postal code. |
| 457 | DINVALIDADDRESS | Postal code not found in database. |
| 458 | DINVALIDADDRESS | Unable to verify or correct address. |
| 459 | DINVALIDADDRESS | Multiple addres matches were found (international) |
| 460 | DINVALIDADDRESS | Address match not found (no reason given) |
| 461 | DINVALIDADDRESS | Unsupported character set |
| 475 | DAUTHENTICATE | The cardholder is enrolled in Payer Authentication. Please authenticate the cardholder before continuing with the transaction. |
| 476 | DAUTHENTICATIONFAILED | Encountered a Payer Authentication problem. Payer could not be authenticated. |
| 478 | DAUTHENTICATE | Strong customer authentication (SCA) is required for this transaction. |
| 480 | DREVIEW | The order is marked for review by Decision Manager |
| 481 | DREJECT | The order has been rejected by Decisio
Manager |
| 490 | | Your aggregator or acquirer is not accepting transactions from you at this time. |
| 491 | | Your aggregator or acquirer is not accepting this transaction. |
| 520 | DSETTINGS | Soft Decline - The authorization reques was approved by the issuing bank but declined by Cybersource based on your Smart Authorization settings. |
| 700 | DRESTRICTED | The customer matched the Denied Parties List |
| 701 | DRESTRICTED | Export bill_country/ship_country match |

| 702 | DRESTRICTED | Export email_country match |
|-----|-------------|--|
| 703 | DRESTRICTED | Export hostname_country/ip_country match |

PayNet FPX Internet Banking (MY)

- 00 | Approved
- 03 | Invalid Merchant
- 05 | Seller Account Closed
- 09 | Transaction Pending
- 12 | Invalid Transaction
- 13 | Invalid Amount
- 14 | Invalid Buyer Account
- 20 | Invalid Response
- 30 | Transaction Not Supported For Model Or Format Error
- 31 | Invalid Bank
- 39 | No Credit Bank
- 45 | Duplicate Seller Order Number
- 46 | Invalid Seller Exchange Or Seller
- 47 | Invalid Currency
- 48 | Maximum Transaction Limit Exceeded
- 49 | Merchant Specific Limit Exceeded
- 50 | Invalid Seller for Merchant Specific Limit
- 51 | Insufficient Funds
- 53 | No Saving Account
- 57 | Transaction Not Permitted
- 58 | Transaction to Merchant Not Permitted
- 65 | Withdrawal Frequency Exceeded
- 70 | Invalid Serial Number
- 76 | Transaction Not Found
- 77 | Invalid Buyer Name Or Buyer Id
- 78 | Decryption Failed
- 79 | Host Decline When Down
- 80 | Buver Cancel Transaction
- 83 | Invalid Transaction Model
- 84 | Invalid Transaction Type
- 85 | Internal Error At Bank System 87 | Debit Failed Exception Handling
- 88 | Credit Failed Exception Handling
- 89 | Transaction Not Received Exception Handling
- 90 | Bank Internet Banking Unavailable
- 92 | Invalid Buyer Bank
- 96 | System Malfunction
- 98 | MAC Error
- 99 | Pending for Authorization (Applies to B2B model)
- BB | Blocked by Bank
- BC | Transaction Cancelled By Customer
- DA | Invalid Application Type
- DB | Invalid Email Format
- DC | Invalid Maximum Frequency
- DD | Invalid Frequency Mode
- DE | Invalid Expiry Date
- DF | Invalid e-Mandate Buyer Bank ID
- FE | Internal Error
- OE | Transaction Rejected As Not In FPX Operating Hours
- OF I Transaction Timeout
- SB | Invalid Seller Bank Code
- XA | Invalid Source IP Address (Applicable for B2B2 model)
- XB | Invalid Seller Exchange IP

- XC | Seller Exchange Encryption Error
- XE | Invalid Message
- XF | Invalid Number of Orders
- XI | Invalid Seller Exchange
- XM | Invalid FPX Transaction Model
- XN | Transaction Rejected Due To Duplicate Seller Exchange Order Number
- XO | Duplicate Exchange Order Number
- XS | Seller Does Not Belong To Exchange
- XT | Invalid Transaction Type
- XW | Seller Exchange Date Difference Exceeded
- 1A | Buyer Session Timeout at Internet Banking Login Page
- 1B | Buyer failed to provide the necessary info to login to IB Login page
- 1C | Buyer choose cancel at Login Page
- 1D | Buyer session timeout at Account Selection Page
- 1E | Buyer failed to provide the necessary info at Account Selection Page
- 1F | Buyer choose cancel at Account Selection Page
- 1G | Buyer session timeout at TAC Request Page
- 1H | Buyer failed to provide the necessary info at TAC Request Page
- 11 | Buyer choose cancel at TAC Request Page
- 1J | Buyer session timeout at Confirmation Page
- 1K | Buyer failed to provide the necessary info at Confirmation Page
- 1L | Buyer choose cancel at Confirmation Page
- 1M | Internet Banking Session Timeout
- 2A | Transaction Amount Is Lower Than Minimum Limit

Alipay (CN)

| Error Code | Description |
|--|---|
| ILLEGAL_SIGN | Illegal signature |
| ILLEGAL_ARGUMENT | Illegal parameters |
| HASH_NO_PRIVILEGE | No sufficient rights to complete the query |
| ILLEGAL_SERVICE | Service Parameter is incorrect |
| ILLEGAL_PARTNER | Incorrect Partner ID |
| ILLEGAL_SIGN_TYPE | sign_type parameter is incorrect |
| FOREX_MERCHANT_NOT_SUPPORT_THIS_
CURRENCY | Cannot support this kind of currency |
| ILLEGAL_SECURITY_PROFILE | Cannot support this kind of encryption |
| REPEAT_OUT_TRADE_NO | out_trade_no parameter is repeated |
| ILLEGAL_CURRENCY | Currency parameter is incorrect |
| ILLEGAL_PARTNER_EXTERFACE | Service is not activated for this account |
| SYSTEM_EXCEPTION | Contact Alipay technical support for help |
| ILLEGAL_TIMEOUT_RULE | Timeout_rule parameter is incorrect |
| ILLEGAL_CHARSET | Illegal charset |
| 99/TRADE_NOT_EXIST | Customer did not make payment/Fail onboarding |

Razer Gold

| Error Code | Error Description |
|------------|--|
| 40001 | Required parameter is required. / Parameter format is invalid. |

| 40002 | Invalid API Version. |
|-------|---|
| 40003 | Invalid Currency Code or not supported. |
| 40004 | Duplicate Reference Id. The transaction was refused as a result of a duplicate Reference Id supplied. Currency Code is not match with previous transaction. The transaction was refused as a result of a duplicate Reference Id supplied. Pin is not match with previous transaction. |
| 40005 | Invalid Channel Id. |
| 40006 | Invalid Amount. |
| 40007 | Invalid PIN. |
| 40008 | Invalid Client IP Address. |
| 40009 | The transaction was declined by Razer Gold because of possible fraudulent activity. |
| 40013 | Payment Amount Exceed channel maximum accepted amount. |
| 40014 | Payment Amount less than channel minimum accepted amount. |
| 40101 | Invalid Application Code. |
| 40102 | Unauthorized Server IP Address. |
| 40103 | Invalid Signature. |
| 40104 | Channel Id not permitted. |
| 40400 | Payment not found. |

UnionPay (CN)

- 00 Payment is successful.
- 01 Refer to card issuer.
- 03 Invalid merchant.
- 05 Merchant or seller account closed.
- 06 Issuer card is expired.
- 09 Request in progress.
- 12 Invalid transaction.
- 13 Invalid amount.
- 14 Invalid buyer account or card information.
- 17 Buyer cancel transaction.
- 22 Suspected malfunction.
- 25 Failure to search an original transaction.
- 30 Format error or MAC error.
- 31 Invalid bank.
- 39 No credit account.
- 51 Insufficient fund.
- 53 No saving account.
- 57 Transaction not permitted.
- 61 Withdrawal limit exceeded.
- 65 Withdrawal frequency exceeded.
- 76 Transaction not found.
- 77 Invalid buyer name or buyer Id.
- 79 Host decline when down.
- 85 Internal error at bank's system.
- 87 Debit failed (exception handling).
- 88 Credit failed (exception handling).
- 89 Transaction not received (exception handling).

- 92 Financial institution or intermediate network facility cannot be found for routing.
- 93 Transaction cannot be completed.
- FE Internal error.
- OE Transaction rejected as not in operating hours.
- OF Transaction timeout.
- OA Session timeout.
- 1A Buyer session timeout at bank login page.
- 1B Buyer failed to provide the necessary info to login to bank login page.
- 1C Buyer choose cancel at login page.
- 1D Buyer session timeout at account selection page.
- 1E Buyer failed to provide the necessary info at account selection page.
- 1F Buyer choose cancel at account selection page.
- 1G Buyer session timeout at TAC request page.
- 1H Buyer failed to provide the necessary info at TAC request page.
- 11 Buyer choose cancel at TAC request page.
- 1J Buyer session timeout at confirmation page.
- 1K Buyer failed to provide the necessary info at confirmation page.
- 1L Buyer choose cancel at confirmation page.
- 2A Transaction amount is lower than minimum limit.

Boost (MY)

| Error Code | Description | |
|------------|--|--|
| E0005 | Invalid input value mandatory parameter missing | |
| E0006 | Message too long. Maximum length characters | |
| E0007 | Message too short. Minimum length characters | |
| E0008 | Invalid email format | |
| E0009 | Invalid date format, expected format | |
| E0010 | Invalid Double value format | |
| E0013 | Invalid msisdn format | |
| E0016 | Error occurred | |
| E0017 | Invalid value format for path variable | |
| E0020 | Merchant not found | |
| E0021 | Merchant integration info not found | |
| E0022 | Payment transaction token Expired | |
| E0023 | Merchant transaction not found | |
| E0024 | Already payment done for given payment Transaction Token | |
| E0027 | Customer wallet balance not sufficient | |
| E0032 | Validation Failure Invalid Merchant category | |
| E0038 | Minimum Bio Data [image count] not found | |

| irab Pay (MY) | | |
|-------------------------------|--|--|
| Error Code | Description | |
| 99/ Invalid transaction_id | Customer did not make payment | |
| 99/Record not found | Record not found | |
| currency_mismatch | Currency used in this request mismatches with merchant configuration. | |
| init_record_not_exist | The initiate payment action is not completed. | |
| payment_not_found | Original payment is not found or not completed for the refund request. | |
| partial_refund_not_allowed | Partial refund is not allowed for this transaction. | |
| merchant_insufficient_balance | Merchant balance is insufficient. | |
| exceed_payment_amount | Refund amount exceeds payment amount | |
| no_record_found | No record found for this transaction | |
| charging | System is processing a charge request | |
| Refunding | System is processing a refund request | |
| invalid_request | The request is missing a required parameter, includes an invalid value, includes a parameter more than once, or is otherwise malformed | |
| unauthorized_client | The client is not authorized to request an authorization code using this method | |
| Access_denied | The resource owner or authorization server denied the request | |
| unsupported_response_type | The authorization server does not support obtaining an authorization code using this method | |
| invalid_scope | The requested scope is invalid, unknown, or malformed | |
| server_error | The authorization server encountered an unexpected condition that prevented it from fulfilling the request | |
| temporarily_unavailable | The authorization server is currently unable to handle the request due to a temporary overloading or maintenance of the server. | |
| interaction_required | The Authorization Server requires some form for end-user interaction to proceed. This error may be returned when the prompt parameter value in the Authentication Request is 'none' but cannot be completed without displaying a user interface for end-user interaction. | |
| login_required | The Authorization Server requires end-user authentication. This error may be returned when the prompt parameter value in Authentication Request is none but cannot be completed without displaying a user interface for end-user authentication | |
| account_selection_required | The end-user is required to select a session at the Authorization server. The end-user may be authenticated at the Authorization server with different associated accounts, but he did not select a session. This error may be returned when the 'prompt' parameter value in Authentication Request is 'none' but cannot be completed without displaying a user interface to prompt for a session to use | |

| consent_required | The Authorization Server requires end-user consent. This error may be returned when the prompt parameter value in the Authentication Request is 'none' but cannot be completed without displaying user interface for end user consent. |
|----------------------------|--|
| invalid_request_uri | The request_uri in the Authorization Request returns an error or contains invalid data |
| invalid_request_object | The Request parameter contains an invalid Request Object |
| request_not_supported | The OP does not support the use of the Request parameter |
| request_uri_not_supported | The OP does not support the use of the request_uri parameter |
| registration_not_supported | The OP does not support the use of the Registration parameter |
| user_canceled | The user has requested to cancel the transaction. |
| session_expired | The session for this transaction has expired. |
| invalid_acr_values | An invalid acr_values parameter was passed in the generated Web URL. Please ensure that the acr_values query parameter is generated in the correct format. |
| invalid_token | An invalid request object was passed in the generated Web URL. Be sure to only use a request parameter that was returned in a successful Initiate Payment step. |
| invalid_argument | There are invalid parameters passed with the generated Web URL. Ensure that all required parameters are sent in the URL in the correct format. |
| mfa_not_completed | The multi-factor authentication step for the user was not successful. |
| transaction_not_found | A valid transaction could not be located from the specified request. Ensure that all required parameters are sent in the URL, and in the correct format. |
| kyc_compliance_decline | Transaction was unsuccessful due to regulatory compliance checks. |
| transaction_declined | Transaction was declined. |
| client_error | Transaction could not be completed due to an unspecified user error in the checkout flow. |
| insufficient_balance | Transaction could not be completed due to an insufficient balance on the user's selected payment method. |
| unknown | Transaction could not be processed in time. As a result, the transaction will be canceled. Users may still encounter a temporary hold of funds in their wallet. |
| confirm_failed | (LEGACY) A user or server error has happened in the checkout flow. |
| | |

MAE by Maybank2U (MY)

| Error Code | Description |
|------------|--|
| QR098 | Sorry, we could not complete your request at this time. Please try again later |
| QR090 | Mandatory fields missing |
| QR091 | Invalid QR ID |
| QR092 | Invalid Terminal ID |

| QR122 | Your account has been locked or Inactive. Please call our Customer Care Hotline at 1300 888 6688 for assistance |
|-------|---|
| QR155 | Invalid Transaction |
| 401 | Failed to verify OAuth information |

Touch `n Go eWallet (MY)

| Touch it do ewaller (WT) | | | |
|--------------------------|---|--|--|
| Error Code | Description | Action/Remarks | |
| 00000000/INIT | Order is not paid/Paid but unfinished | | |
| 00000000/CLOSED | Order is closed | | |
| PAYING | Order is paid but not finish | Order is paid successfully for PAY-CONFIRM | |
| MERCHANT_ACCEPT | Order is accepted by merchant after order is paid for PAY-CONFIRM | | |
| CANCELLED | Order is cancelled | | |

WeChat Pay (CN & MY)

| Error Code | Description | Action/Remarks |
|------------|--|--|
| SUCCESS | Payment successful | |
| REFUND | Order to be refunded | |
| NOTPAY | Order not paid | > |
| CLOSED | Order closed | |
| REVOKED | Order revoked | |
| USERPAYING | Awaiting user to pay | |
| PAYERROR | Payment failed (payment status failed to be returned by bank or other reasons) | |
| 0000 | Successful | |
| 9994 | Merchant does not support Institution or Agency mode | The Merchant ID is a direct merchant. Please check the Merchant ID |
| 9995 | Sub Merchant ID does not belong to the Merchant | Please check the Sub Merchant ID first |
| 9996 | Error Signature Algorithm | Check the sign type and for more information. |
| 9997 | Invalid Merchant ID | Invalid Merchant ID or Sub Merchant ID. Please check the ID first |
| 9998 | Error verifying signature | Check the signature process in detail |

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| Merchant's Order Number Order does not match Check the program in detail, and confirm the match between Merchant's Order Number and WeChat P Number Order does not match Check the program in detail, and confirm the match | ity of WeChat |
| between Merchant's Order Number and WeChat P
Number Order does not match Check the program in detail, and confirm the match | ity of |
| | |
| Number | |
| 0204 Incorrect order status The order which has been paid or refunded canno | t be closed |
| Order does not exist Check the program in detail and confirm the validity Pay Order Number | ty of WeChat |
| Order does not match Check the program in detail and confirm the validity Merchant's Order Number | ty of |

| 0302 | Order does not match | Check the program in detail and confirm the matching relation between Merchant's Order Number and WeChat Pay Order Number. |
|-------|--|--|
| 0303 | Order does not match | Check the program in detail and confirm the matching relation between Merchant's Order Number and WeChat Pay Order Number. |
| 0304 | The amount of is not consistent with the original order. | Check the program in detail and confirm the validity of the original order information. |
| 03005 | Exceed the refundable amount | The total amount of refunds should not be more than the amount of payment. |
| 03006 | Incorrect order status | The unpaid or closed order cannot be refunded |
| 0350 | Error verifying Merchant certificate | Check whether the Merchant certificate used is valid |
| 0201 | Order does not exist | Check the program in detail, and confirm the validity of Merchant's Order Number. |
| 0203 | Order paid for more than 1 day cannot be revoked | Order paid for more than 1 day cannot be revoked and you can call the Refund Order API to submit a refund |
| 0250 | Error verifying Merchant certificate | Check whether the Merchant certificated used is valid |
| 0400 | Order does not match | Check the program in detail, and confirm the validity of order parameter |
| 0401 | Order does not exist | Check the program in detail, and confirm the validity of WeChat
Pay Order Number or WeChat Pay Refund Number |
| 0402 | Order does not exist | Check the program in detail, and confirm the validity of
Merchant's Order Number or Merchant's Refund Number |
| 0500 | Failed to download | Confirm the validity of the data parameter first |

eNETS Debit

| Error Code | Description | Action/Remarks |
|------------|-------------------------------------|--|
| 00000 | Payment successful | Transaction is approved. |
| 01000 | Payment declined. Call Bank. | Bank has declined the transaction because customer cancelled it at the bank login page. |
| 01001 | Payment declined. Please try again. | Bank has declined the transaction with unknown reason and indicated customer to try again. |

| Payment declined. Please contact card issuer | Customer's account has Insufficient Funds |
|---|--|
| Payment declined. Please contact Merchant | Bank declined with Security Violation |
| Payment declined. Invalid Account | Bank has declined the transaction because customer does not have a Cheque Account |
| Payment declined. Invalid Account | Bank has declined the transaction because customer does not have a Savings Account |
| Payment declined. Exceeded activity/pin-retry Limit | Bank has declined the transaction with unknown reason and indicated customer to try again |
| Payment declined. Exceeded Account Limit | Bank has declined the transaction because customer exceeded their account limit |
| Payment declined - User Session Expired | Bank has declined the transaction because of Timeout due to customer inactivity |
| Payment declined. Time out. | Gateway has declined the transaction because timeout on backend has occurred. |
| Payment declined. User Session Expired. | Payment declined. User Session Expired. |
| Payment declined. User Cancelled Txn | Payment declined. User Cancelled Txn |
| Payment declined. Please contact card issuer | Gateway has declined the transaction because issuer/bank related problems |
| | Payment declined. Please contact Merchant Payment declined. Invalid Account Payment declined. Exceeded activity/pin-retry Limit Payment declined. Exceeded Account Limit Payment declined - User Session Expired Payment declined. Time out. Payment declined. User Session Expired. Payment declined. User Cancelled Txn |

KBank_PayPlus

| Failure Code | Failure Message |
|--------------|---|
| 99 | Payment Failed |
| 0500 | Invalid Message Format |
| 1001 | No register |
| HOST30209 | (HOST30209) The account cannot be processed. Please contact the bank branch of account. |
| 04 | Bill Expired (ER04) |

| KP1001 | Require field not found (identify field name in error message) |
|--------|--|
| KP2000 | Unauthorized partner |
| KP9999 | KBank internal error |
| 07 | Payment request cannot be sent. PromptPay account is inactive. Please contact the bank of PromptPay account.(07) |
| 35 | Payment request cannot be sent.(35) |
| 36 | Payment request cannot be sent. The owner of PromptPay account must give consent for receiving the payment request to the bank of that account .(36) |
| 37 | Payment request cannot be sent. The bank of PromptPay account does not support Request-to-Pay.(37) |
| 40 | Payment request cannot be sent.(40) |
| 41 | Payment request cannot be sent.(41) |
| 79 | Payment request cannot be sent. Please contact the bank of PromptPay account.(79) |
| 82 | Payment request cannot be sent. Please contact the bank of PromptPay account.(82) |
| 96 | Payment request cannot be sent.(96) |
| 8018 | Payment request cannot be sent.(8018) |
| 8019 | Payment request cannot be sent.(8019) |
| 8020 | Payment request cannot be sent.(8020) |
| 8021 | Payment request cannot be sent.(8021) |
| 8022 | Payment request cannot be sent.(8022) |
| 8023 | Payment request cannot be sent.(8023) |
| 8024 | Payment request cannot be sent. Please check PromptPay registration process.(8024) |
| 8025 | Payment request cannot be sent. Please check PromptPay registration process.(8025) |
| 8026 | Payment request cannot be sent. Please check PromptPay registration process.(8026) |
| 8027 | Payment request cannot be sent. Please check PromptPay registration process.(8027) |

KTB_IB_U

Error Code Error Description

| 11 | Cancel Payment by Customer |
|-------|--|
| E01 | Login |
| E02 | Payment |
| Z01 | Error caused by embedding portal |
| E0111 | Your user ID / ATM Card No. is invalid. Please re-enter it. |
| E0112 | Password/PIN is invalid. Please re-enter it. In case of error exceeding three times, please contact your Main Account branch. |
| E0113 | Sorry !! Your login retries exceeded those allowed by system. Please contact branch where you signed up for service |
| E0115 | Sorry !! Your User ID/Password retries already exceeded those allowed by system. Please contact branch where you signed |
| E0116 | Sorry !! System not allow you to do transaction since you are blocked from using service. Please contact branch where you signed up for service. |
| E0117 | Sorry !! Your membership record for using KTB Internet Banking not found. Please sign up for service before login. |
| E0120 | Incorrect Company Information. |
| E0121 | Cancel Payment by Customer. |
| E0122 | Please kindly change your password at KTB Online on web before making this transaction |
| E0123 | Please pay by your belonging ATM Card or Invalid ATM Card No. |
| E0124 | You have no last 5 transactions in 30 days |
| E0212 | Insufficient funds. Please check your A/C balance. |
| E0214 | Sorry !! Host computer unavailable now. Please Login again later. |
| E0215 | Sorry !! System error - unable to serve you now. Please Login again later. |
| E0216 | Sorry !! You are not allowed to do this transaction. |
| E0217 | Sorry !! you are not allowed to do transaction since you account has problems. Please contact branch where you signed up for service. |
| E0218 | You are not allowed to do transaction because of invalid/incorrect amount. Please re-enter correct amount and redo transaction. |
| E0219 | Requested transaction date is not same as Effective Date in eMCI |
| E0220 | Your Password/PIN was invalid. Please re-enter it. If invalid more than 3 times, please contact your Main Account branch. |
| E0256 | Sorry!! An exception while processing your request. In case of financial transaction, please checking you statement |
| E0257 | Sorry !! Company or Company Account not found in CBS. Please contact KTB contact center. |
| E0258 | Please pay with your student ATM card |

| E0259 | Sorry! User is not Authorize for this action. |
|-------|--|
| E0260 | There is no applicable account to perform this transaction. |
| E0261 | Please Login KTB Online to change your User ID and Password before payment. |
| E0262 | User is not registered mobile number for receive TOP |
| E0263 | Incorrect TOP or TOP expired Please enter correct TOP or request new TOP/ |
| E0264 | Invalid Mobile Number or Email Address. Please enter a valid mobile number or Email address |
| E0265 | Sorry! The Bank Limit Amount Exceeded |
| E0266 | Invalid Payment Reference |
| E0267 | Transaction could not be processed. |
| E0268 | Transaction is not found. |
| E0269 | Transaction failed, please contact bank. |
| Z0101 | Sorry !! Internal system in error, unable to serve you now. Please login again later. |
| Z0102 | Format message to host failed, unable to process. |
| Z0105 | Password entered was invalid. Please re-enter it. |
| Z0106 | Account number was invalid. Please re-enter it |
| Z0110 | Sorry !! Internet Banking Host currently unable to handle transaction. Please try again later. |
| Z0111 | Sorry !! Currently host time out because of so many users thus slowing down host response. Please try again later. |
| Z0117 | Invalid amount entered. Please reenter information. |
| Z0123 | Date input length exceeded that specified. Please check it again. |
| Z0127 | Data entered incomplete. Please check it again |
| Z0135 | Sorry !! You already login to system and not allowed to login again since your User ID is be utilized. In case of doubt, please re-check it. |
| Z0137 | Invalid Input field. Please check it again |
| Z0161 | Invalid Configuration File setting. |
| Z0163 | Session Timed out. Please logout and login again. |
| Z0164 | Invalid Session. |
| Z0165 | Cannot format the response page. |
| Z0166 | Sorry !! Server down unable to serve you now. Please try again later. |
| Z0190 | Invalid Terminal ID or Sequence No. |
| Z0191 | Invalid Reference No. |
| | I . |

| Z0192 | Invalid site name. |
|-------|-----------------------------------|
| Z0199 | Unknown Error Code, please check. |

SCB_IB_U

| Status | Response Code | Response Message |
|--------|---------------|----------------------------------|
| 001* | 280 | Schedule Success |
| 001* | 282 | Schedule Partially Success |
| 002 | 001 | Payment Success |
| 003 | 022 | INSUFFICIENT AVAILABLE BALANCE |
| 003 | 023 | ACCOUNT DOES NOT EXIST |
| 005 | 141 | Payment canceled by payer |
| 006 | 001 | Invalid Command |
| 006 | 011 | Terminal id is Required |
| 006 | 012 | Invalid Ref. Number or Ref. Date |
| 006 | 032 | Internal Error |
| 006 | 098 | Invalid Parameter (payee_id) |
| 006 | 098 | Invalid Parameter (cust_id) |
| 006 | 098 | Invalid Parameter (ref_no) |
| 006 | 098 | Invalid Parameter (currency) |
| 006 | 099 | Internal Error |
| 006 | 122 | Internal Error |
| 006 | 123 | Internal Error |
| 006 | 131 | Signon Fail |
| 006 | 136 | Invalid currency code |
| 006 | 137 | Invalid debit amount |
| 006 | 138 | Invalid profile ID |
| 006 | 139 | Internal Error |
| 006 | 140 | Duplicate Transaction |
| 006* | 35 | Duedate is required |
| 006* | 135 | Invalid Duedate(YYYYMMDD) |

| 006* | 281 | Schedule failed. Please try again. |
|------|-----|--|
| 006* | 283 | Transaction failed |
| 009* | 284 | Edit Schedule date |
| 009* | 285 | Cancel Schedule transaction |
| 010 | 145 | Payment result questionable (time out) |

Note: * for Future/Recurring use only.

ShopeePay

| Value | Description |
|-------|--|
| -2 | A server dropped the connection |
| -1 | A server error occurred |
| 0 | Success |
| 1 | Request parameters error |
| 2 | Permission denied |
| 4 | Merchant/store not found |
| 6 | The user making the payment has not activated their wallet |
| 7 | Expired |
| 9 | User's account is banned |
| 11 | Duplicate request/transaction |
| 24 | User's account is frozen |
| 42 | Insufficient balance |
| 101 | One of the user's wallet limits has been exceeded |
| 102 | One of the user's wallet limits has been exceeded |
| 103 | User exceeded daily payment limit Limit will reset the next day |
| 104 | One of the user's wallet limits has been exceeded |
| 105 | Authorisation code is invalid |
| 121 | Client attempts to update completed transaction |
| 301 | Invalid payment code or QR content |
| 303 | Merchant is trying to make payment to their own user account |
| 304 | Refund/void cannot be processed due to payment exceeding validity period |

| 305 | Merchant invalid |
|-----|--|
| 601 | Request to refund/void a payment transaction does not meet rules |
| 602 | Request to refund/void a payment transaction is unsuccessful |

DuitNow OBW

| Code | Description | Status Code |
|------|--|-------------|
| U000 | Success/ Transaction Accepted | ACSP |
| U002 | Success/ Transaction Accepted Stored in SAF | ACTC |
| U110 | Payment Not Accepted | RJCT |
| U111 | Minimum Amount Check Failed | RJCT |
| U112 | Maximum Amount Check Failed | RJCT |
| U115 | Date Sent Tolerance Check failed | RJCT |
| U119 | Session Validation Failed | RJCT |
| U121 | Inbound Bank Not Found | RJCT |
| U122 | Inbound Bank Not Active | RJCT |
| U124 | Bank Code Not found in message | RJCT |
| U125 | Inbound Bank Id Cannot be Determined (Bank Classifier not found) | RJCT |
| U126 | Outbound Bank Cannot be Determined | |
| U128 | Outbound Bank Not Active | |
| U130 | Inbound Settlement Bank not found | |
| U131 | Outbound Settlement Bank not found | RJCT |
| U132 | Inbound Settlement Bank Inactive | RJCT |
| U134 | Outbound Settlement Bank Inactive | RJCT |
| U149 | Duplicate Transaction | RJCT |

RESOURCES

Logos of all brand name

Merchant may download the logos from https://merchant.razer.com/v3/media-library/ password: RazerMerchantServices

Mobile SDK/XDK

RMS is now ready to be integrated into your mobile apps. We have released the Mobile SDK and XDK library on GitHub. To apply this, kindly contact support-sa@razer.com and provide your Merchant ID or Company name, Platform (iOS/Android), Apps Name in order to register and authorize 3rd party apps in the PG system.

Supported Shopping Cart

RMS has been integrated with many popular shopping carts, globally. Merchant may refer the complete list on https://github.com/RazerMS

Some payment plugins/add-on/modules can be downloaded from GitHub.

ISO References

http://www.iso.org/iso/country_codes.htm

http://en.wikipedia.org/wiki/ISO_3166-1

http://www.iso.org/iso/currency_codes

http://en.wikipedia.org/wiki/ISO_4217

Handling JSON/PLAIN TEXT using .NET

http://stackoverflow.com/questions/36216464/wcf-webinvoke-which-can-accept-content-type-text-plain

Please use the above custom WebContentTypeMapper if you are using .NET, especially when you encounter this exception message:

The incoming message has an unexpected message format 'Raw'. The expected message formats for the operation are 'XML'; 'JSON'. This can be because a WebContentTypeMapper has not been configured on the binding. See the documentation of WebContentTypeMapper for more details.