# MCP API (Public Version)

# Merchant-hosted

# Change History

| Version | Date | By | Description of Change |
|---------|------|-----|----------------------|
| 5.0 | 21 July 2017 | Murali | Initial release for version 5.0 |
| 5.1 | 25 Aug 2017 | Gong Jing | Add : Add the EWallet Void Order interface |
| 5.2 | 31 Aug 2017 | Gong Jing | Add : Add the EWallet Merchant QR interface |
| 5.3 | 19 Sep 2017 | Sam Lin | Add : Add "eWallet Void" transaction type in sheet |
| 5.4 | 21 Sep 2017 | Gong Jing | Add : Add the eWallet CliebtUrl Response json data |
| 5.4.1 | 21 Sep 2017 | Gong Jing | Add : Add annotations with the status of using_paying |
| 5.4.2 | 6 Nov 2017 | Xu Longlong | Update : Update the UAT address |
| 5.4.3 | 13 Dec 2017 | Murali, Sam Lin | Add : Add AuthPlatForm Request and Response details; Edit "Sale with Masterpass" |
| 5.4.4 | 4 Jan 2018 | Sudhar, Murali | Update : Update wrong Endpoint of AuthPlatform and description<br>Add : Integration Guide flow for ecom/mpos. |
| 5.4.5 | 29 Mar 2018 | Sam Lin | Update : Add "Merchant QR Pay" to Transaction Type |
| 5.4.6 | 14 Jun 2018 | Michael | Add : Masterpass v7 - Checkout<br>Update : Sale/PreAuth to support MP7 Express C/O |
| 5.4.7 | 10 Oct 2018 | Sam Lin | Update : Add item details in Unified Order and change to Mandatory field |
| 5.4.8 | 28 Nov 2018 | Murali | Update : Card Expiry Date description updated. |
| 5.4.9 | 24 Jav 2019 | Michael | Update : Transaction State |
| 5.4.10 | 11 Feb 2019 | Michael | Update : Sandbox(A.K.A UAT) URL. |
| 5.4.11 | 11 Mar 2019 | Ray Kim | Add : No Authorized Token |
| 5.4.12 | 19 Mar 2019 | Ray Kim | Add : customerEmailAddress for sending receipt |
| 5.5.0 | 05 Sep 2019 | Sam Lin | Delete : Remove Platform Authentication;<br>Update : Update Terminal Authentication specification<br>Update : Add signature sample code |
| 5.5.1 | 25 Oct 2019 | Sam Lin | Update : Standardized ReferenceText to ReferenceNo;<br>Update : Add Transaction State RETRIEVAL<br>Update : Add some descriptions |
| 5.6.0 | 1 Nov 2019 | Sam Lin | Add : e-Wallet In-App Payment API; |

| | | | Add : e-Wallet Mini-Program Payment API |
|---|---|---|---|
| 5.7.0 | 11 Dec 2019 | Sam Lin | Add : e-Wallet Refund API |
| 5.7.1 | 19 Feb 2020 | Maliza Hans | Add: more e-Wallet Types |
| 5.7.2 | 27 Apr 2020 | Maliza Hans | Add: parameters to Sale API Request Data<br>Add: parameters to Sale API Response Data |
| 5.7.3 | 09 Dec 2020 | Jiang Yan | Add: eType(Type of eWallet) in each request Description |
| 5.7.4 | 02 Nov 2021 | Milinda | Add: KBank Alipay and 3DS payment flow description |
| 5.7.5 | 13 January 2022 | Winse Tan | Delete: ThreedSecure Enrollment Transaction |
| 5.7.6 | 25 April 2022 | Nishan Wickramasinghe | Update: New fields 'brands', 'modules', 'walletTypes' and 'tripleAModuleData' to Terminal Authentication API Response Data. |
| 5.7.7 | 2022.05.23 | Michael | Add: ThreeDSecure Enrollment Transaction |
| 5.8.0 | 26 May 2022 | Nishan Wickramasinghe | Add: crypto payment API |

# Table of Content

# Introduction

## Specification Titles

**Name**: This column specifies the name of a JSON field in request or response.

**Max Length**: This column specifies the content and maximum length of the value of a JSON field.
1. a - Alpha
2. n - Numeric
3. s - Special printable character

**Type**: This column specifies the type of JSON field.
1. String - the value is in string type;
2. Nested JSON - the value is a JSON object.

**Required**: This column specifies the requirement of a JSON field
1. M - Mandatory. OxPay system will validate this field in request and response
2. C - Conditional. In some conditions, this field is Mandatory. The condition will be specified in the Description column.
3. O - Optional. This field is optional, which will not affect the result of the transaction .

**Description**: This column describe the usage, conditions, or values contained in this JSON field.
1. mPOS - The mobile payment solution, the request is sent from merchant mobile applications.
2. eCom - The web-based payment solution, the request is sent from the merchant website or web application.

## Security Standards

OxPay API provides different types of security standards.

**HTTPS**: First layer of security which is compulsory for all connections to OxPay API. TLS 1.2.
**Whitelist**: IP white list is optional.
**Signature**: For eCom transaction requests, the signature is optional.

# Quick Start

## Integration Guide
1. After boarded with OxPay, merchant will be issued "userId", "password" and "password hash key"
2. Call auth/terminal API with userId and password issued. *
3. if successful, get mcptid and signKey.
4. If failure then check with the OxPay support team .
5. Generate signature using signKey, hash 'data' string by Hmac SHA512, put as 'signature' in requests' 'header' object (Not HTTP Headers).
6. Apply 'signature' to all other requests, Sale, Void, Refund, etc.

\* Password hash is using HmacSHA512, key will be given together with userId and password.

**Sample Code in Java:**

```java
private static final String HMAC_SHA512 = "HmacSHA512";
private static final String ISO_8859_1 = "ISO-8859-1";

public static String hmacSHA512(String password, String passwordKey) {
  try {
    byte[] bytesKey = passwordKey.getBytes();
    final SecretKeySpec secretKey = new SecretKeySpec(bytesKey, HMAC_SHA512);
    Mac mac = Mac.getInstance(HMAC_SHA512);
    mac.init(secretKey);
    final byte[] macData = mac.doFinal(password.getBytes());
    byte[] hex = new Hex().encode(macData);
    return new String(hex, ISO_8859_1);
  } catch (NoSuchAlgorithmException e) {
    e.printStackTrace();
  } catch (InvalidKeyException e) {
    e.printStackTrace();
  } catch (UnsupportedEncodingException e) {
    e.printStackTrace();
  }
  return null;
}
```

# Signature Guide

7.  Build 'data' as per specification:
    "data" : {…}
8.  Convert data object to string and hmac SHA512 with "signKey" returned from auth/terminal API

**Sample Code in Java:**

```java
Gson gson = new Gson();
String dataJson = gson.toJson(dataObject);
String signature = SymmetricCrypto.hmacSHA512(dataJson, signKey);

public static String hmacSHA512(String dataJson, String key) {
  try {
    byte[] bytesKey = key.getBytes();
    final SecretKeySpec secretKey = new SecretKeySpec(bytesKey, HMAC_SHA512);
    Mac mac = Mac.getInstance(HMAC_SHA512);
    mac.init(secretKey);
    final byte[] macData = mac.doFinal(dataJson.getBytes());
    byte[] hex = new Hex().encode(macData);
    return new String(hex, ISO_8859_1);
  } catch (NoSuchAlgorithmException e) {
    e.printStackTrace();
  } catch (InvalidKeyException e) {
    e.printStackTrace();
  } catch (UnsupportedEncodingException e) {s
    e.printStackTrace();
  }
  return null;
}
```

# Protocol Format

**MediaTypes** : JSON format
**Protocol** : HTTPS
**Method** : POST (Please note that all requests will be a POST request)
**Server URL** :

- https://gw2.sandbox.mcpayment.net

**HTTP Headers :**

| No. | Key | Value |
|-----|-----|-------|
| **1** | Accept | application/json |
| **2** | Content-Type | application/json |

## Message Structure

```
{
    "header" : {…},
    "data" : {…}
}
```
**header**

Header is common to all the requests and responses. All messages have the same header structure as below

| No. | Name | Max length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| **1** | version | ans..50 | String | **M** | API version |
| **2** | appType | ans..50 | String | **M** | I: iPhone; A: Android; W: Web; |
| **3** | appVersion | ans..50 | String | **M** | Application name and application version name.<br>Suggested format: x.__.__.__<br>"x" : specifies the mobile application name or web application name, alphanumeric only;<br>"_" is numeric.<br>For example: "AppName.01.20.0" or "WebName.0002.00012.1" |
| **4** | status | ans..200 | Nested JSON | **C** | included only in **response**, and it contains the result of the message. See below for the format. |

| 5 | mcpTerminalId | n..20 | String | **C** | Mcp Terminal Id mandatory for sale, void, refund, reverse… |
| 7 | signature | ans..500 | String | **C** | Signature<br>Note: Based on terminal configuration signature will be sent via request. |
| 8 | uuid | ans..50 | String | **C** | **(mPos)**<br>Unique id of the device. Used by mobile app only |

**Status**

Status is common to all response. Content differs according to request.

| No. | Name | Max length | Type | Required | Description |
|---|---|---|---|---|---|
| 1 | responseCode | n4 | String | **M** | Refer to Appendix - Response codes |
| 2 | message | ans..50 | String | **C** | return blank if success, return an error message if the request failed |

**Sample Request:**

```
{
    "header" : {
        "version" : "5" ,
        "appType" : "A" ,
        "appVersion" : "S2.00.00" ,
        "uuid" : "ThisIsPhoneUUID" ,
        "mcpTerminalId" : "10000001"
    },
    "data" : {…}
}
```

**data**

Data differ according to command.

# API Specification

**URL:** https://SERVER_HOSTNAME/api/v5/PATH

The following commands are supported

| No. | Name | Path | Description |
|---|---|---|---|
| 2 | Terminal Authentication | auth/terminal | Authenticate Terminal |
| 3 | Sale | sale | Sale |
| 5 | Void | void | Void sale |
| 7 | Refund | refund | Refund sale |
| 8 | Pre Authorization | preauth | Pre Authorization |
| 9 | Pre Authorization Reverse | preauthreverse | Reverse of Pre Authorization |
| 10 | Capture | capture | Capture of Pre Authorization |
| 13 | Query List | query/list | Query list of receipts by terminal / Auth merchant / else |
| 14 | Query Detail | query/detail | Query detail of receipt by receipt number |
| 15 | Ewallet Query Exchange Rate | ewallet/getRate | Query Current Exchange Rate |
| 16 | Ewallet Quick Pay | ewallet/quickPay | Scan QR Payments |
| 17 | Ewallet unified Order | ewallet/unifiedOrder | Generate QR Payments |
| 18 | Ewallet Void | ewallet/revokeOrder | Ewallet Void |
| 19 | EWallet Merchant QR | ewallet/merchantQRPay | EWallet Merchant QR |

# Terminal Authentication

Client's terminal must be registered to the server. Server will validate the request parameters and return the terminal identification, then the client will do the future transactions.

**EndPoint:** https://SERVER_HOSTNAME/api/v5/auth/terminal

**Request data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 2 | userId | ans..255 | String | C | Mandatory for mPOS, Optional for eCom. User id registered in the server. |
| 3 | password | ans..255 | String | C | Mandatory for mPOS, Optional for eCom. User password registered in the server, Hash by Hmac SHA512, with a given key |
| 4 | timeStamp | n14 | String | C | **(mPOS)** Mandatory for mPOS. Request timestamp, Format: yyyyMMddHHmmss |
| 5 | serialNo | an..255 | String | C | **(mPOS)** SerialNo of card reader. Used in mobile app only. |
| 6 | fcmTokenId | an..255 | String | O | **(mPOS)** Firebase generate Token Id . |
| 7 | ipAddress | ns..20 | String | O | IP address of application specifies the internet location of user. Format: xxx.xxx.xxx.xxx |

**Request sample:**

**With userId & password (mPOS, eCom):**

```
{
"header": {
     "version": "5"
    "appType": "A",
    "appVersion": "S2.00.00",
    "uuid": "ThisIsPhoneUUID"
  },
"data": {
    "userId": "test",
```

```
    "password": "test",
    "timeStamp": "20170530145818",
    "serialNo": "FDSER0001",
    "ipAddress": "192.168.1.1"
  }
 }
```

**With userId , password and fcmTokenId (mPOS):**

```
{
"header": {
     "version": "5"
    "appType": "A",
    "appVersion": "S2.00.00",
    "uuid": "ThisIsPhoneUUID"
  },
"data": {
    "userId": "test",
    "password": "test",
    "timeStamp": "20170530145818",
    "serialNo": "FDSER0001",
    "ipAddress": "192.168.1.1",
"fcmTokenId":"dIiDxUflgSA:APA91bGCQb8_cJxKkqSPihKX-6f2XdPs65eCeZMgEZubnRofXMftVpxiv9l
VuLVjjIlB8RnCLuYDfqkIzA3Mb_5Y4ERGH655VJs3g-FPhurL6cFpFSejdgJFy6lgYCH3nrK6nbaf0YHO"
   }
  }
```

**Response data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | mcpTerminalId | an..20 | String | **M** | Merchant terminal Id |
| 3 | signKey | ans..500 | String | **C** | Mandatory for mPOS, Optional for eCom. To sign the data of request for validation |
| 4 | isDonation | | Boolean | **M** | Indicates whether the donation mode is enabled or disabled in the dashboard. (true = enabled, false = disabled) |
| 5 | routeList | ans..1000 | List | **C** | Mandatory for mPOS.routeList supported currency and modules with ; separator |
| 6 | brands | an..1000 | List | **C** | Mandatory for mPOS. List of brands supported by the merchant terminal id. |
| 7 | modules | an..1000 | List | **C** | Mandatory for mPOS. List of modules |

| | | | | | supported by the merchant terminal id. |
|---|---|---|---|---|---|
| **8** | walletTypes | an..1000 | List | **C** | Mandatory for e-wallet payments. |
| **9** | tripleAModule Data | an..1000 | List | **C** | Mandatory for mPOS terminal which supports crypto payments. |

(\*1 )  ResponseCode in response. "0000" : version checking Ok (success=true in this condition)

**Plain for (with userId and password) and (with userId, password and fcmTokenId) :**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "uuid": "ThisIsPhoneUUID",
    "status": {
      "responseCode": "0000",
      "message": "Approved"
    }
  },
  "Data": {
    "mcpTerminalId": "12345671",
    "signKey": "ShqHvaW/54Y9c/R5o1vNLP1w/7ksoRm+qjTZ3p2GaQA=",
    "routeList": [
      "USD;amexHost",
      "SGD;alipayHost",
      "SGD;fdHost",
      "SGD;wechatHost",
      "SGD;tripleAHost",
      "USD;tripleAHost"
    ],
    "isDonation": false,
    "brands": [
      "testBTC",
      "ETH",
      "testBTC"
    ],
    "currencyList": [
      "SGD",
      "USD"
    ],
    "modules": [
      "tripleAHost"
    ],
    "tripleAModuleData": {
      "cryptoCurrencyApiKey": [
        {
```

```
        "name": "BTC",
        "currency": "USD",
        "enabled": true
      },
      {
        "name": "BTC",
        "currency": "SGD",
        "enabled": true
      }
    ]
  },
  "walletTypes": {
    "ETH": {
      "eType": "ETH (ERC20)",
      "alias": "ETH (ERC20)",
      "timeout": "1800000"
    },
    "testBTC": {
      "eType": "testBTC",
      "alias": "Sandbox bitcoin",
      "timeout": "1800000"
    }
  }
}
}
```

# Sale Transaction

Terminal sends the Sale request to the server All the data names should follow standards strictly and are case sensitive.

**EndPoint:** https://SERVER_HOSTNAME/api/v5/sale

**Request data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | currency | a3 | String | **M** | Currency of transaction. |
| 2 | cardno | n..19 | String | **C** | Primary account number. For eCom & mpos (if cardEntryMode=k) |
| 3 | cardExpiryDate | n4 | String | **C** | 4  digi card expiry date shown in front of card. Format : YYMM For eCom & mpos (if cardEntryMode=k) |
| 4 | totalAmount | n..18 | String | **C** | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 8 | salesAmount | n..18 | String | **C** | actual monetary value of the goods or service user paying for Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 9 | cardHolderName | an..50 | String | **O** | Cardholder name |
| 10 | installment | an..2 | String | **O** | Installment month if available |
| 11 | ipAddress | ans..15 | String | **O** | IP address of terminal |
| 12 | threedsecure | n1 | String | **C** | Threed secure enabled/disable flag. possible values : 1 or 0 |
| 13 | cav | ans..50 | String | **C** | Cardholder authentication verification value |
| 14 | xid | ans..50 | String | **C** | Threed secure transaction id |
| 15 | eci | n2 | String | **C** | (eCom) |

| | | | | | Electronic commerce indicator value like<br>VISA - 05 or 06<br>MASTER - 01 or 02<br>JCB - 05<br>AMEX - 05 or 06 |
|---|---|---|---|---|---|
| 16 | cvv | n..4 | String | O | **(eCom)**<br>Card security code. Visa - CVV2; Master - CVC; Amex - CID (Reference Document)cav |
| 17 | referenceNo | an..20 | String | C | Unique Reference number provided by client side.<br>ONLY use for querying when request timeout |
| 18 | customerEmailAddress | ans..150 | String | C | **(eCom)**<br>Will send a receipt |
| 19 | customerName | an..50 | String | C | (eCom)<br>Will use this name in receipt |
| 25 | serviceAmount | n..18 | String | O | Value added to sale amount by payment gateway.<br>Service amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 26 | serviceRate | n..18 | String | O | Service rate added on top of the sale amount |
| 27 | gstAmount | n..18 | String | O | The actual gst amount added on the sale amount<br>Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 28 | gstRate | n..18 | String | O | Gst rate added on top of the sale amount |
| 32 | serialNo | an..20 | String | O | **(mPOS)**<br>Serial number of reader. Required for mPOS. |
| 33 | gpsLatitude | ans..15 | String | O | **(mPOS)**<br>Latitude of terminal from GPS |
| 34 | gpsLongitude | ans..15 | String | O | **(mPOS)**<br>Longitude of terminal from GPS |
| 37 | tipAmount | n..18 | String | O | Tip Amount |

| 38 | brandName | a..25 | String | **O** | Brand name of card |
|---|---|---|---|---|---|
| 41 | masterpassTxnId | an..50 | String | **O** | Masterpass Standard C/O, Express C/O (Merchant Hosted) Transaction Identifier<br><br>Sale with Masterpass * |
| 42 | tokenize | a1 | String | **O** | Possible values : Y or N(optional) Sale with Tokenize * |
| 43 | cardtoken | ans..50 | String | **O** | Card related information Token Note : Card information not required to provide if request having cardToken Sale with Tokenize * |
| 44 | masterpassParingId | an..50 | String | **O** | Masterpass Express C/O (Gateway Hosted) Transaction Identifier<br><br>Only returned for an Express checkout request PairingIds are single-use only. |
| 45 | masterpassCardId | an..50 | String | **O** | Masterpass Express C/O (Gateway Hosted) Transaction Identifier<br><br>cardId in the 'preCheckoutData' |
| 46 | masterpassAddressId | an..50 | String | **O** | Masterpass Express C/O (Gateway Hosted) Transaction Identifier<br><br>addressId in the 'preCheckoutData' |
| 47 | status | a1 | String | **O** | 3DS transaction Status (tx_status= Y/N/U) Y - Yes, N - No, U - Unavailable for Checking |
| 48 | is3DSEnabled | n1 | String | **O** | Possible values : true(1)/false(0) |
| 49 | buyerFirstName | a..20 | String | C | Buyer's First Name |
| 50 | buyerLastName | a..20 | String | C | Buyer's Last Name |
| 51 | buyerPhone | ns..24 | String | C | plus(+), space( ), numeric are allowed. For e.g +65 1234 4567 |

| 52 | buyerEmail | ans..32 | String | C | Buyer's email address |
| 53 | billingFirstName | a..20 | String | O | Card Holder's First Name |
| 54 | billingLastName | a..20 | String | O | Card Holder's Last Name |
| 55 | billingPhone | ns..24 | String | O | plus(+), space( ), numeric are allowed. For e.g +65 1234 4567 |
| 56 | billingEmail | ans..32 | String | O | Card Holder's Email |
| 57 | billingCountry | a..31 | String | O | Card Holder's Country |
| 58 | billingState | a..31 | String | O | Card Holder's State |
| 59 | billingCity | a..31 | String | O | Card Holder's City |
| 60 | billingPostcode | an..12 | String | O | Card Holder's Postal Code |
| 61 | billingAddress | an..62 | String | O | Card Holder's Address |
| 62 | billingAddress2 | an..62 | String | O | Card Holder's Address |
| 63 | billingAddress3 | an..62 | String | O | Card Holder's Address |
| 64 | shippingFirstName | a..20 | String | O | Buyer's First name |
| 65 | shippingLastName | a..20 | String | O | Buyer's Last Year |
| 66 | shippingPhone | ns..24 | String | O | Buyer's Phone Number |
| 67 | shippingEmail | ans..32 | String | O | Buyer's Email |
| 68 | shippingCountry | a..31 | String | O | Buyer's Country |
| 69 | shippingState | a..31 | String | O | Buyer's State |
| 70 | shippingCity | a..31 | String | O | Buyer's City |
| 71 | shippingPostcode | an..12 | String | O | Buyer's Postal Code |
| 72 | shippingAddress | an..62 | String | O | Buyer's Address |
| 73 | shippingAddress2 | an..62 | String | O | Buyer's Address |
| 74 | shippingAddress3 | an..62 | String | O | Buyer's Address |
| 75 | additionalData | an..150 | String | O | Additional Data in JSON format |

*   **additionalData** field is used to send **otpRedirectUrl** in the **KBank 3DS** sale transaction.

**Request sample:**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "mcpTerminalId": "12345671"},
"data": {
    "additionalText": "",
    "applicationIdentifier": "A0000000031010",
    "brandName": "Visa Debit",
    "cardEntryMode": "I",
    "cardHolderName": " MCPayment",
    "cardno": "4111111111111111",
    "currency": "SGD",
    "gstAmount": "0",
    "requestTime": "20170530145818",
    "salesAmount": "100",
    "serialNo": "Q6NL00599628",
    "serviceAmount": "0",
    "signatureData": "0000",
    "terminalOPTValue": "",
    "tipAmount": "0",
    "totalAmount": "100",
    "additionalData": "{\"otpRedirectUrl\":\"http://example.com/api/returnUrl\"}"
  }
}
```

**Ecom Request sample:**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "mcpTerminalId": "12345671",
    "signature": "B/;i+${Enk<'4y!"
},
"data": {
    "tokenize": "",
    "cardHolderName": "MCPayment",
    "cardno": "4111111111111111",
    "cardExpiryDate": "2508",
    "cvv": "197",
    "currency": "SGD",
```

```
    "referenceNo": "5eMpJTt9Pv",
    "buyerFirstName": "John",
    "buyerLastName": "Smith",
    "buyerPhone": "+65 91115678",
    "buyerEmail": "john.smith@mcpayment.com"
    "totalAmount": "100"
  }
}
```

**Request sample with tokenize:**

```
{
  "header": {
    "appType": "A",
    "appVersion": "F1.0.0",
    "uuid": "865028034912761",
    "version": "2.0.2",
    "mcpTerminalId": "3117110003"
  },
  "data": {
    "cardHolderName": " MCPayment",
    "cardno": "4111111111111111",
    "cardExpiryDate": "1801",
    "totalAmount": "1000",
    "currency": "THB",
    "tokenize": "Y"
  }
}
```

**Request sample with cardtoken:**

```
{
  "header": {
    "appType": "A",
    "appVersion": "F1.0.0",
    "uuid": "865028034912761",
    "version": "2.0.2",
    "mcpTerminalId": "3117110003"
  },
  "data": {
    "cardtoken": "29f15959-534f-4e89-954d-bb359ddc4228",
    "totalAmount": "1000",
    "currency": "THB",
    "tokenize": "Y"
  }
}
```

**Response data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | transactionId | n..18 | String | **M** | Unique id for each transaction |
| 2 | transactionType | n..10 | String | **M** | Transaction Type |
| 3 | transactionState | n..2 | String | **M** | Transaction State |
| 4 | hostResponseDate | n14 | String | **M** | Timestamp returned from bank host. Format: yyyyMMddHHmmss |
| 5 | clientRequestDate | n14 | String | **M** | Timestamp of client (mPOS, MAP) request transaction. Format: yyyyMMddHHmmss |
| 6 | gatewayRequestDate | n14 | String | **M** | Timestamp of gateway sending request to bank host. Format: yyyyMMddHHmmss |
| 7 | gatewayResponseDate | n14 | String | **M** | Timestamp of gateway responset Format: yyyyMMddHHmmss |
| 8 | respCode | an..16 | String | **M** | Response code from acquirer host |
| 9 | currency | a3 | String | **M** | Currency of transaction |
| 10 | stan | n6 | String | **M** | System trace audit number |
| 11 | receiptNumber | an..14 | String | **C** | Receipt number print in receipt. |
| 12 | truncatedPan | ans..30 | String | **M** | Truncated primary account number get from reader. |
| 13 | brandName | a..100 | String | **M** | Brand name determined by primary account number. Visa, Master or Amex. |
| 14 | totalAmount | n..18 | String | **C** | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 15 | salesAmount | n..18 | String | **C** | actual monetary value of the goods or service user paying for.<br><br>Sales amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 16 | rrn | n..12 | String | **O** | Retrieval reference number |

| 17 | authCode | an..100 | String | **O** | Authorization Identification returned from bank host |
|----|----------|---------|--------|-------|---------------------------------------------------|
| 20 | cardHolderName | an..50 | String | **O** | Cardholder name |
| 21 | currencyCode | n3 | String | **O** | Currency Code |
| 23 | gpsLatitude | ans..15 | String | **O** | **(mPOS)** Latitude of terminal from GPS |
| 24 | gpsLongitude | ans..15 | String | **O** | **(mPOS)** Longitude of terminal from GPS |
| 26 | serviceAmount | n..18 | String | **O** | value added to sale amount by payment gateway Service amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 27 | serviceRate | n..18 | String | **O** | service rate added on top of the sale amount |
| 28 | gstAmount | n..18 | String | **O** | the actual gst amount added on the sale amount Gst amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 29 | gstRate | n..18 | String | **O** | **(mPOS)** gst rate added on top of the sale amount |
| 35 | tokenize | a1 | String | **O** | Sale with Tokenize * |
| 36 | cardtoken | ans..50 | String | **O** | Card related information Token Sale with Tokenize * |
| 37 | shippingInfo | ans..150 | String | **O** | country firstName lastName address address3 address2 city phone postcode state |

| | | | | | email |
|---|---|---|---|---|---|
| **38** | buyerInfo | ans..150 | String | **C** | firstName<br>lastName<br>phone<br>email |
| **39** | billingInfo | ans..150 | String | **O** | country<br>firstName<br>lastName<br>address<br>address3<br>address2<br>city<br>phone<br>postcode<br>state<br>email |
| **40** | redirectUrl | ans..150 | String | **O** | Acquire OTP page url. Merchants need to redirect to this URL. |

**Response sample:**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "status": {
      "responseCode": "0000",
      "message": "Approved"
    },
    "mcpTerminalId": "12345671"

  },
  "data": {
    "transactionId": "4950",
    "transactionType": "200",
    "transactionState": 2,
    "totalAmount": "100",
    "salesAmount": "100",
    "serviceRate": "0",
    "gstRate": "0",
```

```
      "hostResponseDate": "20150604102907",
      "clientRequestDate": "20150604102847",
      "gatewayRequestDate": "20150604102858",
      "gatewayResponseDate": "20150604102958",
      "stan": "000025",
      "rrn": "102907150604",
      "authCode": "102907",
      "respCode": "00",
      "currencyCode": "702",
      "receiptNumber": "000010",
      "truncatedPan": "XXXXXXXXXXXX4239",
      "brandName": "Visa",
      "currency": "SGD",
      "cardHolderName": "SAM LIN",
      "gatewayResponseCode": "00",
      "gpsLongitude": "103.8942417",
      "gpsLatitude": "1.3261046",
      "redirectUrl": "https://example.com/Authorize/auth_29db1f1e7c51c485fa5bd4"
  }
}
```

**Ecom Response sample:**

```
{
  "data": {
    "globalMerchantId": "71b2fb97-9d14-4d6d-8226-13e0a04aa8f9",
    "shippingInfo": {
      "country": "Singapore",
      "firstName": "John",
      "lastName": "Smith",
      "address": "1",
      "address3": "",
      "address2": "",
      "city": "Singapore",
      "phone": "+65 9478 7934",
      "postcode": "408564",
      "state": "",
      "email": "maliza.hans@mcpayment.com"
    },
    "posConditionCode": "00",
    "type": "TRANSACTION",
    "tokenize": "N",
```

"reference": "2804201155",

"hostResponseMessage": "Success.",

"salesAmount": "0",

"currency": "USD",

"merchantCountry": "SGP",

"receiptNumber": "834EC444F620200428000002",

"brandName": "American Express",

"authCode": "511900",

"gatewayRequestDate": "20200428115524",

"hostResponseCode": "0000",

"referenceNo": "2804201155",

"cardHolderName": "maliza",

"transactionReference": "2804201155",

"clientRequestDate": "20200428115524",

"errorMessage": "Success.",

"gatewayResponseDate": "20200428115527",

"gatewayResponseCode": "00",

"transactionId": "4407010",

"transactionType": 200,

"truncatedPan": "376317*****0821",

"buyerInfo": {

   "firstName": "John",

   "lastName": "Smith",

   "phone": "+65 9478 7934",

   "email": "maliza.hans@mcpayment.com"

},

"totalAmount": "1",

"billingInfo": {

   "country": "Singapore",

   "firstName": "John",

   "lastName": "Smith",

   "address": "1",

   "address3": "",

   "address2": "",

   "city": "Singapore",

   "phone": "+65 9478 7934",

   "postcode": "408564",

   "state": "",

   "email": "maliza.hans@mcpayment.com"

```
      },
      "referenceText": "2804201155",
      "mpiTransactionId": 0,
      "currencyCode": "840",
      "transactionState": "2",
      "respCode": "0000"
    },
    "header": {
      "appType": "W",
      "appVersion": "00.00.01",
      "mcpTerminalId": "3120040048",
      "signature": "",
      "status": {
        "message": "Approved",
        "responseCode": "0000"
      },
      "version": "5"
    }
}
```

# Void Transaction

A credit card Sale that a seller cancels after it has been authorized but before it has been settled.

Terminal send the Void request to the server. All the data names should follow standard strictly and are case sensitive.

Note: Void can only be applied to transactions not settled yet. The settlement time is set by the acquirer.

Note: Void can only be applied to transactions not settled yet. The settlement time is set by the acquirer.

Note: Not supported for PAYNOW.

**EndPoint:** https://SERVER_HOSTNAME/api/v5/void

**Request data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | currency | a3 | String | **M** | Currency of transaction. Must match original transaction. |
| 2 | originalTransactionId | n..18 | String | **M** | Id of original transaction to be voided. |
| 3 | totalAmount | n..18 | String | **C** | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
|   |   |   |   |   |   |

**Request sample:**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
   "mcpTerminalId":"12345671",
    "signature":
```
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJNb2JpbGUgQ3JlZGl0IFBheW1lbnQgUHRlIIEx
0ZCIsIm1jcFRlcm1pbmFsSWQiOiIxMjM0NTY3MSIsInB1YmxpY2tleSI6Ik1Gd3dEUVlKS29aSwh2Y05BUUVC
QlFBRFN3QXdTQUpCQUllOWtwwMEk0RTBSNXpzMDN5UlVIK2w3Z3d4MU00eUZzclxuV09vvSE8rQ2VIdnY2UC9Jc

3ZzNy8ybFdUcytIVmp1WVR6SlRWLzM4QmhlRWJ4eUVjMEZWanNIMENBd0VBQVE9PSIsImV4cCI6MjExNzA1Mz
AxMzIzMTcsImlhdCI6MjAxNzA1MzAxMzIzMTd9.Lq8gXZsX4FdknI0J-pI3nPFPqZg8VxM8-1jGAbkyDdE"
  },
  "data": {
    "additionalText": "",
    "currency": "SGD",
    "originalTransactionId": "4951",
    "salesAmount": "100",
  }
}

**Response data:**

| No. | Name | Max length | Type | Required | Description |
|---|---|---|---|---|---|
| 1 | transactionId | n..18 | String | **M** | Unique id for each transaction |
| 2 | transactionType | n..10 | String | **M** | Transaction Type |
| 3 | transactionState | n..2 | String | **M** | Transaction State |
| 4 | hostResponseDate | n14 | String | **M** | Timestamp returned from bank host. Format: yyyyMMddHHmmss |
| 5 | clientRequestDate | n14 | String | **M** | Timestamp of client (mPOS, MAP) request transaction. Format: yyyyMMddHHmmss |
| 6 | gatewayRequestDate | n14 | String | **M** | Timestamp of gateway sending request to bank host. Format: yyyyMMddHHmmss |
| 7 | gatewayResponseDate | n14 | String | **M** | Timestamp of gateway response.. Format: yyyyMMddHHmmss |
| 8 | currency | a3 | String | **M** | Currency of transaction |
| 9 | hostResponseMessage | ans..100 | String | **M** | Description of response message |
| 10 | origTnxId | n..18 | String | **M** | Original transaction Id |
| 11 | stan | n6 | String | **M** | System trace audit number |
| 12 | totalAmount | n..18 | String | **M** | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 13 | salesAmount | n..18 | String | **C** | actual monetary value of the goods or service user paying for |

| 14 | rrn | n..12 | String | **C** | Retrieval reference number |
|---|---|---|---|---|---|
| 15 | authCode | an..6 | String | **C** | Authorization Identification returned from bank host. |
| 16 | receiptNumber | an..14 | String | **O** | Receipt number print in receipt. |
| 17 | brandName | an..30 | String | **O** | Brand name determined by primary account number. Visa, Master or Amex. |
| 20 | truncatedPan | ans..19 | String | **O** | Truncated primary account number get from reader. |
| 21 | cardHolderName | an..50 | String | **O** | Cardholder name |
| 22 | currencyCode | n3 | String | **O** | Currency Code |
| 24 | processingCode | n..6 | String | **O** | **(eCom)** Processing code |
| 25 | serviceAmount | n..18 | String | **O** | value added to sale amount by payment gateway |
| 26 | serviceRate | n..18 | String | **O** | service rate added on top of the sale amount |
| 27 | gstAmount | n..18 | String | **O** | the actual gst amount added on the sale amount. Gst amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 28 | gstRate | n..18 | String | **O** | gst rate added on top of the sale amount |
| 29 | gpsLatitude | ans..15 | String | **O** | **(mPOS)** Latitude of terminal from GPS |
| 30 | gpsLongitude | ans..15 | String | **O** | **(mPOS)** Longitude of terminal from GPS |

**Response sample:**

```
{
    "header": {
    "version": "5",
    "appType": "A",
```

```
    "appVersion": "S2.00.00",
    "status": {
      "responseCode": "0000",
      "message": "Approved"
    },
   "mcpTerminalId":"12345671",
    "jwt":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJNb2JpbGUgQ3JlZGl0IFBheW1lbnQgUHRlIEx
0ZCIsIm1jcFRlcm1pbmFsSWQiOiIxMjM0NTY3MSIsInB1YmxpY0tleSI6Ik1Gd3dEUVlKS29aSh2Y05BUUVC
QlFBRFN3QXdTQUpCQU1lOWtwwMEk0RTBSNXpzMDN5UlVIK2w3Z3d4MU00eUZcclxuV09vSE8rQ2VIdnY2UC9Jc
3ZzNy8ybFdUVcytIVmp1WVR6SlRWLlzM4QmhlRWJ4eUVjMEZWanNIMENBd0VBQVE9PSIsImV4cCI6MjExNzA1Mz
AxMzIzMTcsImlhdCI6MjAxNzA1MzAxMzIzMTd9.Lq8gXZsX4FdknI0J-pI3nPFPqZg8VxM8-1jGAbkyDdE"
  },
  "data": {
    "transactionId": "4952",
    "transactionType": "300",
    "transactionState": 2,
    "totalAmount": "100",
    "hostResponseDate": "20150605121131",
    "clientRequestDate": "20150605121109",
    "gatewayRequestDate": "20150605121118",
    "gatewayResponseDate":"20170606140803",
    "origTnxId": "4951",
    "stan": "000027",
    "rrn": "121131150605",
    "authCode": "121131",
    "respCode": "00",
    "currencyCode": "702",
    "receiptNumber": "000011",
    "truncatedPan": "XXXXXXXXXXXX4239",
    "brandName": "Visa",
    "currency": "SGD",
    "cardHolderName": "SAM LIN",
    "gatewayResponseCode": "00",
    "serviceAmount": "0",
    "gpsLongitude": "103.8942417",
    "tipAmount": "0",
    "gpsLatitude": "1.3261046",
    "gstRate": "0",
    "serviceRate": "0",
    "salesAmount": "100"
  }
}
```

# Refund Transaction

To perform a chargeback transaction. It can be relied on the original Sale/Capture transaction or apply stand-alone (depends on acquirer host capabilities and specifications).

Terminal send the  Refund request to the server. All the data names should follow standard strictly and are case sensitive.

Note: Refund can only be applied to transactions already settled.

Note: Not supported for PAYNOW.

**EndPoint:** https://SERVER_HOSTNAME/api/v5/refund

**Request data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | currency | a3 | String | **M** | Currency of transaction. Must match original transaction. |
| 2 | originalTransactionId | n..18 | String | **M** | Original transaction id want to void. To fetch original transaction information in GW2. |
| 3 | totalAmount | n..18 | String | **C** | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. Required for Partial refund |

**Request sample:**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "mcpTerminalId":"12345671",
    "signature":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJNb2JpbGUgQ3JlZGl0IFBheW1lbnQgUHRlIEx
0ZCIsIm1jcFRlcm1pbmFsSWQiOiIxMjM0NTY3MSIsInB1YmxpY0tleSI6Ik1Gd3dEUVlKS29aSWh2Y05BUUVC
QlFBRFN3QXdTUUpCQUllOWtwMEk0RTBBSNXpzMDN5UlVIK2w3Z3d4MU00eUZzclxuV09vSE8rQ2VIdnY2UC9Jc
3ZzNy8ybFdUcytIVmp1WVR6S1lRWLzM4QmhlRWJ4eUVjMEZZWanNIMENBd0VBQUE9PSIsImV4cCI6MjExNzA1Mz
AxMzIzMTcsImlhdCI6MjAxNzA1MzAxMzIzMTd9.Lq8gXZsX4FdknI0J-pI3nPFPqZg8VxM8-1jGAbkyDdE"
  },
  "data": {
    "currency": "SGD",
```

```
    "totalAmount": "100",
    "originalTransactionId": "4951"
  }
}
```

**Response data:**

| No. | Name | Max length | Type | Required | Description |
|---|---|---|---|---|---|
| 1 | transactionId | n..18 | String | **M** | Unique id for each transaction |
| 2 | transactionType | n..10 | String | **M** | [Transaction Type](Transaction Type) |
| 3 | transactionState | n..2 | String | **M** | [Transaction State](Transaction State) |
| 4 | hostResponseDate | n14 | String | **M** | Timestamp returned from bank host. Format: yyyyMMddHHmmss |
| 5 | clientRequestDate | n14 | String | **M** | Timestamp of client (mPOS, MAP) request transaction. Format: yyyyMMddHHmmss |
| 6 | gatewayRequestDate | n14 | String | **M** | Timestamp of gateway sending request to bank host. Format: yyyyMMddHHmmss |
| 7 | gatewayResponseDate | n14 | String | **M** | Timestamp of gateway response.. Format: yyyyMMddHHmmss |
| 8 | currency | a3 | String | **M** | Currency of transaction. |
| 9 | hostResponseMessage | ans..100 | String | **M** | Description of response message |
| 10 | originalTransactionId | n..18 | String | **M** | Original transaction Id |
| 11 | stan | n6 | String | **M** | System trace audit number |
| 12 | totalAmount | n..18 | String | **C** | **(eCom)** Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 13 | salesAmount | n..18 | String | **C** | **(mPOS)** actual monetary value of the goods or service user paying for |
| 14 | rrn | n..12 | String | **C** | **(mPOS)** Retrieval reference number |

| 15 | authCode | an..6 | String | C | **(mPOS)** Authorization Identification returned from bank host. |
|----|----------|-------|--------|---|------------------------------------------------------------------|
| 16 | receiptNumber | an..14 | String | O | Receipt number print in receipt. |
| 17 | brandName | an..30 | String | O | Brand name determined by primary account number. Visa, Master or Amex. |
| 20 | truncatedPan | ans..19 | String | O | Truncated primary account number get from reader. |
| 21 | cardHolderName | an..50 | String | O | Cardholder name |
| 22 | currencyCode | n3 | String | O | Currency Code |
| 24 | processingCode | n..6 | String | O | **(eCom)** Processing code |
| 25 | serviceAmount | n..18 | String | O | value added to sale amount by payment gateway |
| 26 | serviceRate | n..18 | String | O | service rate added on top of the sale amount |
| 27 | gstAmount | n..18 | String | O | the actual gst amount added on the sale amount. Gst amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 28 | gstRate | n..18 | String | O | gst rate added on top of the sale amount |
| 29 | gpsLatitude | ans..15 | String | O | **(mPOS)** Latitude of terminal from GPS |
| 30 | gpsLongitude | ans..15 | String | O | **(mPOS)** Longitude of terminal from GPS |

**Response sample:**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "status": {
```

```
      "responseCode": "0000",
      "message": "Approved"
    },
  "mcpTerminalId":"12345671",
    "signature":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJNb2JpbGUgQ3JlZGl0IFBheW1lbnQgUHRlIIEx
0ZCIsIm1jcFRlcm1pbmFsSWQiOiIxMjM0NTY3MSIsInB1YmxpY2tleSI6Ik1Gd3dEUVlKKS29aSWh2Y05BUUVC
QlFBRFN3QXdTQUpCQUllOWtwMEk0RTBSNXpzMDN5UlVVIK2w3Z3d4MU00eUZcclxuV09vSE8rQ2VIdnY2UC9Jc
3ZzNy8ybFdUUcytIVmp1WVR6SlRWLzM4QmhlRWJ4eUVVVjMEZWanNIMENBd0VBQVE9PSIsImV4cCI6MjExNzA1Mz
AxMzIzMTcsImlhdCI6MjAxNzA1MzAxMzIzMTd9.Lq8gXZsX4FdknI0J-pI3nPFPqZg8VxM8-1jGAbkyDdE"
    },
    "data":{
    "transactionId": "806",
    "transactionType": "400",
    "salesAmount": "10",
    "totalAmount": "10",
    "hostResponseDate": "20160715103052",
    "clientRequestDate": "20160715103050",
    "gatewayRequestDate": "20160715103051",
    "gatewayResponseDate": "20160715103059",
    "origTnxId": "4951",
    "stan": "000017",
    "rrn": "123456789",
    "authCode": "",
    "currencyCode": "702",
    "receiptNumber": "60715101922212",
    "brandName": "AMEX",
    "currency": "SGD",
    "gatewayResponseCode": "90",
    }
```

# Pre Authorization Transaction

Terminal send the PreAuthorization request to the server All the data names should follow standard strictly and are case sensitive.

**EndPoint:** https://SERVER_HOSTNAME/api/v5/preauth

**Request data:**

| No. | Name | Max length | Type | Required | Description |
|---|---|---|---|---|---|
| 1 | currency | a3 | String | **M** | Currency of transaction. |
| 2 | cardno | n..19 | String | **C** | Primary account number. For eCom & mpos (if cardEntryMode=k) |
| 3 | cardExpiryDate | n4 | String | **C** | 4 digi card expiry date shown in front of card. Format : YYMM For eCom & mpos (if cardEntryMode=k) |
| 4 | totalAmount | n..18 | String | **C** | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 8 | salesAmount | n..18 | String | **C** | **(mPOS)** actual monetary value of the goods or service user paying for |
| 9 | cardHolderName | an..50 | String | **O** | Cardholder name |
| 11 | ipAddress | ans..15 | String | **O** | IP address of terminal |
| 12 | cvv | n..4 | String | **O** | **(eCom)** Card security code. Visa - CVV2; Master - CVC; Amex - CID (Reference Document) |
| ~~13~~ | ~~referenceText~~ | ~~an..20~~ | ~~String~~ | ~~O~~ | ~~(eCom)~~ ~~Reference text if any~~ |
| 13 | referenceNo | an..20 | String | **C** | Unique Reference number provided by client side. ONLY use for querying when request timeout |

| 19 | serviceAmount | n..18 | String | O | **(mPOS)**<br>Value added to sale amount by payment gateway.<br>Service amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
|---|---|---|---|---|---|
| 20 | serviceRate | n..18 | String | O | **(mPOS)**<br>Service rate added on top of the sale amount |
| 21 | gstAmount | n..18 | String | O | **(mPOS)**<br>Tthe actual gst amount added on the sale amount |
| 22 | gstRate | n..18 | String | O | **(mPOS)**<br>Gst rate added on top of the sale amount |
| 26 | serialNo | an..20 | String | O | **(mPOS)**<br>Serial number of reader. Required for mPOS. |
| 27 | gpsLatitude | ans..15 | String | O | **(mPOS)**<br>Latitude of terminal from GPS |
| 28 | gpsLongitude | ans..15 | String | O | **(mPOS)**<br>Longitude of terminal from GPS |
| 31 | tipAmount | n..10 | String | O | **(mPOS)**<br>Tip Amount |
| 32 | brandName | a..25 | String | O | **(mPOS)**<br>Brand name of card |
| 48 | is3DSEnabled | n1 | String | O | Possible values : true(1)/false(0) |

**Request sample:**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "mcpTerminalId": "12345671",
    "signature":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJNb2JpbGUgQ3JlZGl0IFBheW1lbnQgUHRlIEx
0ZCIsIm1jcFRlcm1pbmFsSWQiOiIxMjM0NTY3MSIsInB1YmxpY2tleSI6Ik1Gd3dEUVlKS29aSWh2Y05BUUVC
```

QlFBRFFN3QXdTQUpCQUllOWtwMEk0RTBSNXpzMDN5UlVIK2w3Z3d4MU00eUZcclxuV09vSE8rQ2VIdnY2UC9Jc
3ZzNy8ybFdUcytIVmp1WVR6U2lRWLzM4QmhlRWJ4eUVjjMEZWanNIMENBd0VBQVE9OPSIsImV4cCI6MjExNzA1Mz
AxMzIzMTcsImlhdCI6MjAxNzA1MzAxMzIzMTd9.Lq8gXZsX4FdknI0J-pI3nPFPqZg8VxM8-1jGAbkyDdE"
  },
  "data": {
      "additionalText": "",
      "applicationIdentifier": "A0000000031010",
      "brandName": "Visa Debit",
      "cardEntryMode": "I",
      "cardHolderName": " MCPayment",
      "cardno": "4111111111111111",
      "currency": "SGD",
      "gstAmount": "0",
      "ipAddress": "192.168.8.38",
      "salesAmount": "100",
      "serialNo": "Q6NL00599628",
      "serviceAmount": "0",
      "signatureData": "0000",
      "terminalOPTValue": "",
      "tipAmount": "0",
      "totalAmount": "100"
  }
}

**Ecom Request sample:**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "mcpTerminalId": "12345671",
    "signature": "B/;i+${Enk<'4y!"
},
"data": {
    "tokenize": "",
    "cardHolderName": " MCPayment",
    "cardno": "4111111111111111",
    "cardExpiryDate": "2508",
    "cvv": "197",
    "currency": "SGD",
    "referenceNo": "5eMpJTt9Pv",
    "totalAmount": "100"
  }
}
```

# Capture Transaction

To capture a particular transaction (Pre Authorization … as per acquirer host capabilities and specification).

Terminal sends the capture request to the server. All the data names should follow standard strictly and are case sensitive.

Note: Capture can only be applied on transaction of pre-authorization.

**EndPoint:** https://SERVER_HOSTNAME/api/v5/capture

**Request data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | currency | a3 | String | **M** | Currency of transaction. Must match original transaction. |
| 2 | originalTransactionId | n..18 | String | **M** | Original transaction id want to void. To fetch original transaction information in GW2. |
| 3 | totalAmount | n..18 | String | **C** | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. Required for Partial capture |
| 4 | salesAmount | n..18 | String | **C** | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. Required for Partial capture |

**Request sample:**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "mcpTerminalId":"12345671",
    "signature":
```
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJNb2JpbGUgQ3JlZGl0IFBheW1lbnQgUHRlIIEx
0ZCIsIm1jcFRlcm1pbmFsSWQiOiIxMjM0NTY3MSIsInB1YmxpY0tleSI6Ik1Gd3dEUVlKS29aSWh2Y05BUUVC
QlFBREN3QXdTUUpCQUllOWtwwMEk0RTBSNXpMMDN5UlVIK2w3Z3d4MU00eUZzc2lxxuV09vSE8rQ2VIdnY2UC9Jc
3ZzNy8ybFdUcytIVmp1WVR6SlRWLzM4QmhlIRWJ4eUVjjMEZWanNIMENBd0VBQVE9PSIsImV4cCI6MjExNzA1Mz
AxMzIzMTcsImlhdCI6MjAxNzA1MzAxMzIzMTd9.Lq8gXZsX4FdknI0J-pI3nPFPqZg8VxM8-1jGAbkyDdE"
```
    },
```

```
  "data": {
    "currency": "SGD",
    "totalAmount": "100",
    "originalTransactionId": "4951"
  }
}
```

**Response data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | transactionId | n..18 | String | M | Unique id for each transaction, it's transaction oid in DB |
| 2 | transactionType | n..10 | String | M | Transaction Type |
| 3 | transactionState | n..2 | String | M | Transaction State |
| 4 | hostResponseDate | n14 | String | M | Timestamp returned from bank host. Format: yyyyMMddHHmmss |
| 5 | clientRequestDate | n14 | String | M | Timestamp of client (mPOS, MAP) request transaction. Format: yyyyMMddHHmmss |
| 6 | gatewayRequestDate | n14 | String | M | Timestamp of gateway sending request to bank host. Format: yyyyMMddHHmmss |
| 7 | gatewayResponseDate | n14 | String | M | Timestamp of gateway response.. Format: yyyyMMddHHmmss |
| 8 | currency | a3 | String | M | Currency of transaction. |
| 9 | hostResponseMessage | ans..100 | String | M | Description of response message |
| 10 | originalTransactionId | n..18 | String | M | Original transaction Id |
| 11 | stan | n6 | String | M | System trace audit number |
| 12 | totalAmount | n..18 | String | M | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 13 | salesAmount | n..18 | String | C | actual monetary value of the goods or service user paying for |
| 14 | rrn | n..12 | String | C | Retrieval reference number |

| 15 | authCode | an..6 | String | **C** | Authorization Identification returned from bank host. |
|----|----------|-------|--------|-------|-------------------------------------------------------|
| 16 | receiptNumber | an..14 | String | **O** | Receipt number print in receipt. |
| 17 | brandName | an..30 | String | **O** | Brand name determined by primary account number. Visa, Master or Amex. |
| 20 | truncatedPan | ans..19 | String | **O** | Truncated primary account number get from reader. |
| 21 | cardHolderName | an..50 | String | **O** | Cardholder name |
| 22 | currencyCode | n3 | String | **O** | Currency Code |
| 24 | processingCode | n..6 | String | **O** | **(eCom)** Processing code |
| 25 | serviceAmount | n..18 | String | **O** | value added to sale amount by payment gateway. Service amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 26 | serviceRate | n..18 | String | **O** | service rate added on top of the sale amount |
| 27 | gstAmount | n..18 | String | **O** | the actual gst amount added on the sale amount. Gst amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 28 | gstRate | n..18 | String | **O** | **(mPOS)** gst rate added on top of the sale amount |
| 29 | gpsLatitude | ans..15 | String | **O** | **(mPOS)** Latitude of terminal from GPS |
| 30 | gpsLongitude | ans..15 | String | **O** | **(mPOS)** Longitude of terminal from GPS |

**Response sample:**

```
{
  "header": {
```

```
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "status": {
      "responseCode": "0000",
      "message": "Approved"
    },
  "mcpTerminalId":"12345671",
    "signture":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJNb2JpbGUgQ3JlZGl0IFBheW1lbnQgUHRlIIEx
0ZCIsIm1jcFRlcm1pbmFsSWQiOiIxMjM0NTY3MSIsInB1YmxpY0tleSI6Ik1Gd3dEUVlKKS29aSWh2Y05BUUVC
QlFBRFN3QXdTUUpCQUllOWtwMEk0RTBSNXpzMDN5UlViK2w3Z3d4MU00eUZcclxuV09vvSE8rQ2VIdnY2UC9Jc
3ZzNy8ybFdUcytIVmp1WVR6S1RWLzM4QmhlRWJ4eUVVjMEZWanNIMENBd0VBQVE9PSIsImV4cCI6MjExNzA1Mz
AxMzIzMTcsImlhdCI6MjAxNzA1MzAxMzIzMTd9.Lq8gXZsX4FdknI0J-pI3nPFPqZg8VxM8-1jGAbkyDdE"
  },
  "data":{
  "transactionId": "806",
  "transactionType": "220",
  "salesAmount": "10",
  "totalAmount": "10",
  "hostResponseDate": "20160715103052",
  "clientRequestDate": "20160715103050",
  "gatewayRequestDate": "20160715103051",
  "gatewayResponseDate": "20160715103059",
  "origTnxId": "4951",
  "stan": "000017",
  "rrn": "123456789",
  "authCode": "",
  "currencyCode": "702",
  "receiptNumber": "60715101922212",
  "brandName": "AMEX",
  "currency": "SGD",
  "gatewayResponseCode": "90",
  }
```

# ThreedSecure Enrollment Transaction

Terminal send the threedsecure request to the server. All the data names should follow standard strictly and are case sensitive.

**EndPoint:** https://SERVER_HOSTNAME/api/v5/check3dsenrollment

**Request data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|------------|------|----------|-------------|
| 4 | cardno | n..19 | String | **M** | Primary account number |
| 2 | cardExpiryDate | n4 | String | **M** | 4 digi card expiry date shown in front of card for validation void transaction, should match original transaction. If required. YYmm |
| 3 | currency | a3 | String | **M** | Currency of transaction for validation void transaction, should match original transaction. |
| 5 | transactionReference | an..15 | String | **M** | Transaction Reference Number |
| 8 | totalAmount | n..18 | String | **M** | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 9 | salesAmount | n..18 | String | **C** | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |

**Request sample:**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "1.0.0",
    "mcpTerminalId": "12345671",
    "signature":
```
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJNb2JpbGUgQ3JlZGl0IFBheW1lbnQgUHRlIEx0ZCIsIm1jcFRlcm1pbmFsSWQiOiIxMjM0NTY3MSIsInB1YmxpY2tleSI6Ik1Gd3dEUVlKS29aSWh2Y05BQUVC
0ZCIsIm1jcFRlcm1pbmFsSWQiOiIxMjM0NTY3MSIsInB1YmxpY2tleSI6Ik1Gd3dEUVlLS29aSWh2Y05BUUVC
QlFBRFN3QXdTUUpCQUlqbWtUUG14L2lrZUllUEV2bThZZUM4WlRRQ09iiN3VcclxuNUQ2VGEzc2ZBVVFFVUM5d
mNHanl4cXk1YTZqMklMVVBhYWhxZW1nNGlRQjJJei9lWDVrb2FtRUNBd0VBQVE9PSIsImV4cCI6MjExNzA2Mj
ExMDU1NTcsImlhdCI6MjAxNzA2MjExMDU1NTd9.8zEsCvpOTHsmC4p0-pZ4n3wWa1xop0SEXy6Vyb1Dg28"
```
  },
  "data": {
```

```
    "totalAmount": "5000",
    "currency": "SGD",
    "cardno": "4111111111111111",
    "cardExpiryDate": "1703",
    "transactionReference": "1234567890111"
  }
}
```

**Response data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | enrolled | a..5 | boolean | **M** | Its gives true/false.enrolled or not |
| 2 | transactionId | n..18 | String | **M** | Unique id for each transaction, it's transaction oid in DB |
| 3 | transactionType | n..10 | String | **M** | [Transaction Type](#) |
| 4 | clientRequestDate | n14 | String | **M** | Timestamp of client (mPOS, MAP) request transaction. Format: yyyyMMddHHmmss |
| 5 | currency | a3 | String | **M** | Currency of transaction |
| 6 | currencyCode | n3 | String | **M** | Currency Code |
| 7 | transactionReference | an..15 | String | **M** | Transaction Reference Number |
| 8 | totalAmount | n..18 | String | **C** | **(eCom)** Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 9 | salesAmount | n..18 | String | **C** | **(mPos)** Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 11 | brandName | an..30 | String | **O** | Brand name determined by primary account number. Visa, Master or Amex. |
| 12 | gpsLatitude | n..15 | String | **O** | Latitude of terminal from GPS |
| 13 | gpsLongitude | n..15 | String | **O** | Longitude of terminal from GPS |

**Response sample:**

```
{
  "mid": "3117030015",
  "transactionReference": "20170704165220",
  "status": "200",
  "enrolled": "1",
  "additionalData": "{\"check3DSPostForm\":\"<html>\\n<head>\\n<title>Router to
ACS</title>\\n</head>\\n<body OnLoad=\\\"OnLoadEvent();\\\" >\\n<form
name=\\\"downloadForm\\\"
action=\\\"https://pit.3dsecure.net/VbVTestSuiteService/pit1/acsService/paReq?summary
=ZDkwMzc5OGItMTk4OS00YzE2LTljMzctNTc2MjkzY2EyZDYx\\\" method=\\\"POST\\\">\\n<input
type=\\\"hidden\\\" name=\\\"PaReq\\\"
value=\\\"eJxVUstuqzAU/JWo26rYhjxMdGKJhkjNlaBRm0W3jjlqUMBQY9Ly99cmSR/eeGZsnTkv2B8NYvq
K\\nqjcoIMOuk+84KYvV3S55wY84ZjMe8YjOYsqiOwGjKuCMpisbLVhAgxDIjboARh2ltgKk+njc5mIa\\nM0
rnQK4UajTbVFB3QhYyxrlD7IFxOgIgl3fQskaxfzhIfQIyElBNr60ZBA9duBuB3lTiaG3bLQmp\\nZVsGBZ6D
WrVyqFHbQKNdcs5jsrsIZH1EdYqKbqNNU1VeekHbGw3ERwLyU8Cu96hzzl9lIbI0+czS\\nzZCt6eDuKEvVZ5
5uwny/XQHxP6CQFkVI2YIu6HTC5stZtKQUyKiDrH3KwnXDSVcCrfdIfr/8VsAN\\nxaBWg1jMp67mGwP8ahvt
Uheu9d8YCuyUyBs7Sc6yrOShQuftNSA/tayf/GiUdU2+/3fiUVatD8P7\\nm4lY3teP2XOyWvlhjR+8T+maHM
7YxcgTID4Eue4BuW6MQ3826T8LXMSK\\\">\\n<input type=\\\"hidden\\\" name=\\\"TermUrl\\\"
value=\\\"https://mpi.dev.mcpayment.net/visa3dmpi/servlet/ParesListener\\\">\\n<input
type=\\\"hidden\\\" name=\\\"MD\\\" value=\\\"2692\\\">\\n</form>\\n<SCRIPT
LANGUAGE=\\\"Javascript\\\" >\\n<!--\\nfunction OnLoadEvent()\\n{
document.downloadForm.submit(); }\\n//-->\\n</SCRIPT>\\n</body>\\n</html>\\n\\n\"}"
}
```

# Query List

Get list of transactions details based on start date and end date.

**EndPoint:** https://SERVER_HOSTNAME/api/v5/query/list

**Request data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | startDate | n14 | String | **M** | Start date. Format: yyyyMMddHHmmss |
| 2 | endDate | n14 | String | **M** | End date. Format: yyyyMMddHHmmss |
| 3 | currentPage | n..10 | String | **M** | Required current page of txns list. |
| 4 | filter | an..20 | String | **O** | Query filter |

**Request sample:**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "mcpTerminalId": "12345671",
    "signature":
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJNb2JpbGUgQ3JlZGl0IFBheW1lbnQgUHRlIIEx
0ZCIsIm1jcFRlcm1pbmFsSWQiOiIxMjM0NTY3MSIsInB1YmxpY0tleSI6Ik1Gd3dEUVlKS29aSh2Y05BUUVC
QlFBRFN3QXdTUUpCQUllOWtwMEk0RTBSNXpzMDN5UlVIK2w3Z3d4MU00eUZcclxuV09vvSE8rQ2VIdnY2UC9Jc
3ZzNy8ybFdUcytIVmp1WVR6SlRWLzM4QmhlRWJ4eUVjjMEZWanNIMENBd0VBVE9PSIsImV4cCI6MjExNzA1Mz
AxMzIzMTcsImlhdCI6MjAxNzA1MzAxMzIzMTd9.Lq8gXZsX4FdknI0J-pI3nPFPqZg8VxM8-1jGAbkyDdE"
  },
  "data": {
    "startDate": "20170429512000",
    "endDate": "20170530120000",
    "currentPage": "1",
    "Filter": ""
  }
}
```

**Response data:**

| No. | Name | Max length | Type | Required | Description |
|---|---|---|---|---|---|
| 1 | queryType | an..10 | String | **M** | Type of Query |
| 2 | startDate | n14 | String | **M** | Start date |
| 3 | endDate | n14 | String | **M** | End date |
| 4 | currentPage | n..3 | String | **M** | Page no |
| 5 | transactionList | ans..1000 | List | **M** | List of transaction details :<br>Each Transaction :<br>saleAmount<br>gstRate<br>gstAmount<br>brandName<br>gatewayRequestDate<br>referenceNo<br>hostResponseDate<br>clientRequestDate<br>gatewayResponseDate<br>transactionId<br>transactionType<br>totalAmount<br>serviceAmount<br>currency<br>serviceRate<br>transactionState<br>receiptNumber |
| 6 | totalPage | 3 | String | **M** | Total pages |
| 7 | totalCount | 5 | String | **M** | Total count |
| 8 | type | 10 | String | **M** | Type of transaction |

**Response sample:**

```
{
 "header": {
 "version": "5",
  "appType": "A",
  "appVersion": "S2.00.00"
    "status": {
      "responseCode": "0000",
      "message": "Approved"
    },
  "mcpTerminalId": "12345671",
  "signature":
```

"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJNb2JpbGUgQ3JlZGl0IFBheW1lbnQgUHRlIEx
0ZCIsIm1jcFRlcm1pbmFsSWQiOiIxMjM0NTY3MSIsInB1YmxpY2tleSI6Ik1Gd3dEUVlKS29aSwh2Y05BUUVC
QlFBRFN3QXdTUUpCQUllOWtwwMEk0RTBSNXpzMDN5UlVIK2w3Z3d4MU00eUZcclxuV09vSE8rQ2VIdnY2UC9Jc
3ZzNy8ybFdUUcytIVmp1WVR6SlRWLzM4QmhlRWJ4eUVjMEZWanNIMENBd0VBQVE9PSIsImV4cCI6MjExNzA1Mz
AxMzIzMTcsImlhdCI6MjAxNzA1MzAxMzIzMTd9.Lq8gXZsX4FdknI0J-pI3nPFPqZg8VxM8-1jGAbkyDdE"

```
    },
    "data": {
      "queryType": "GW_QUERY_LIST",
      "startDate": "20170429512000",
      "endDate": "20170530120000",
      "currentPage": 1,
      "transactionList": [
        {
          "saleAmount": "0",
          "gstRate": "0",
          "gstAmount": "0",
          "brandName": "Visa",
          "gatewayRequestDate": "20170505145442",
          "referenceNo": "ssrbypass0505003",
          "hostResponseDate": "20170505145442",
          "clientRequestDate": "20170505145441",
          "gatewayResponseDate": "20170505145443",
          "transactionId": "91150",
          "transactionType": 200,
          "totalAmount": "100",
          "serviceAmount": "0",
          "currency": "SGD",
          "serviceRate": "0",
          "transactionState": 2,
          "receiptNumber": "078169"
        }
          ],
      "totalPage": 1,
      "totalCount": 1,
      "type": "QUERY",
      "gatewayResponseCode": "00"
    }
  }
```

# Query Details

Get transaction details based on transaction id.

**EndPoint:** https://SERVER_HOSTNAME/api/v5/query/detail

**Request data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | transactionId | n..18 | String | **C** | Transaction ID of transaction, it's transaction oid in DB |
| ~~2~~ | ~~referenceText~~ | ~~ans..240~~ | ~~String~~ | ~~C~~ | ~~referenceNo in eWallet Quick Pay and Unified Order~~ |
| 2 | referenceNo | an..20 | String | **C** | Unique Reference number provided by client side. ONLY use for querying when request timeout |
| 3 | currency | a3 | String | **C** | Currency of transaction. Must match original transaction. |
| 4 | totalAmount | n..18 | String | **C** | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 6 | filter | an..30 | String | **O** | Query filter |
| 7 | receiptNumber | an..30 | String | **O** | Transaction receipt number |
| 8 | queryType | an..10 | String | **O** | Query type I: Shopee Pay Jump-App Query(In-Query) |

**Request with transactionId sample:**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "mcpTerminalId": "12345671",

  },
  "data": {
    "filter": "",
```

```
    "receiptNumber": "000113",
    "queryType": "",
    "transactionId": "90382"
  }
}
```

**Request with referenceText , currency , totalAmount sample:**

```
{
  "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "mcpTerminalId": "12345671",

  },
  "data": {
    "referenceNo": "MCPShop1",
    "totalAmount":"2",
    "currency":"SGD"
  }
}
```

**Response data:**

| No. | Name | Max length | Type | Required | Description |
|---|---|---|---|---|---|
| 1 | transactionId | n..18 | String | **M** | Unique id for each transaction, it's transaction oid in DB |
| 2 | transactionType | n..10 | String | **M** | Transaction Type |
| 3 | transactionState | n..2 | String | **M** | Transaction State |
| 4 | queryType | an..50 | String | **M** | Type of Query |
| 5 | hostResponseDate | ans..14 | String | **M** | Timestamp returned from bank host. Format: yyyyMMddHHmmss |
| 6 | clientRequestDate | ans..14 | String | **M** | Timestamp of client (mPOS, MAP) request transaction. Format: yyyyMMddHHmmss |
| 7 | gatewayRequestDate | ans..14 | String | **M** | Timestamp of gateway sending request to bank host. Format: yyyyMMddHHmmss |
| 8 | gatewayResponseDate | ans..14 | String | **M** | Timestamp of gateway getting |

| | | | | | response date from bank host. Format: yyyyMMddHHmmss |
|---|---|---|---|---|---|
| 9 | stan | n6 | String | **C** | System trace audit number |
| 10 | receiptNumber | an..14 | String | **C** | Receipt number print in receipt. |
| 11 | brandName | an..30 | String | **M** | Brand name determined by primary account number. Visa, Master or Amex. |
| 12 | currency | a3 | String | **M** | Currency of transaction. |
| 13 | totalAmount | n..18 | String | **C** | **(eCom)** Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 14 | salesAmount | n..18 | String | **C** | **(mPOS)** actual monetary value of the goods or service user paying for |
| ~~15~~ | ~~installment~~ | ~~an..2~~ | ~~String~~ | ~~O~~ | ~~Installment months. '00' if installment feature not available.~~ |
| ~~16~~ | ~~invoiceNumber~~ | ~~an..6~~ | ~~String~~ | ~~O~~ | ~~Last 6 digits number of receipt number for success sale transaction only. It will be deprecated when GW2 logic ready.~~ |
| 17 | truncatedPan | ans..19 | String | **O** | Truncated primary account number get from reader. |
| 18 | cardHolderName | ans..50 | String | **O** | Cardholder name |
| 19 | hostResponseMessage | ans..50 | String | **O** | Host Response Message |
| 20 | merchant | ans..500 | Json | **O** | Merchant details:( shortName businessRegistrationCode gstRegistrationCode address( line1 line2 line3 line4 line5 city regionCode postalCode country countryCode countryCodeAlpha |

| | | | | )<br>) |
|---|---|---|---|---|
| **21** | terminal | ans..500 | Json | **O** | Terminal Details:(<br>address(<br> line1<br> line2<br> line3<br> line4<br> line5<br> city<br> regionCode<br> postalCode<br> country<br> countryCode<br> countryCodeAlpha<br>)<br>) |
| **22** | email | ans..50 | String | **O** | Email address |
| **23** | buyer | ans..50 | String | **O** | Buyer name |
| **24** | rrn | n..12 | String | **O** | Retrieval reference number |
| **25** | authCode | an..6 | String | **O** | Authorization Identification returned from bank host |
| **26** | is3DSEnabled | a..5 | String | **O** | Possible values : true/false |
| **27** | type | a..10 | String | **O** | Type of transaction |
| **27** | gpsLatitude | ans..15 | String | **O** | **(mPOS)**<br>Latitude of terminal from GPS |
| **28** | gpsLongitude | ans..15 | String | **O** | **(mPOS)**<br>Longitude of terminal from GPS |
| **30** | serviceAmount | n..18 | String | **O** | service amount added on top of the sale amount.<br>Service amount without decimal.<br>SGD 1.23 will be 123 in request.<br>JPY 12000 will be 12000. |
| **31** | serviceRate | n..18 | String | **O** | service rate added on top of the sale amount |
| **32** | gstAmount | n..18 | String | **O** | the actual gst amount added on the sale amount |
| **33** | gstRate | n..18 | String | **O** | gst rate added on top of the sale amount |

**Response sample:**

```
{
 "header": {
    "version": "5",
    "appType": "A",
    "appVersion": "S2.00.00",
    "status": {
       "responseCode": "0000",
       "message": "Approved"
    },
    "mcpTerminalId": "12345671",
    "jwt":
```
"eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJNb2JpbGUgQ3JlZGl0IFBheW1lbnQgUHRlIEx
0ZCIsIm1jcFRlcm1pbmFsSWQiOiIxMjM0NTY3MSIsInB1YmxpY0tleSI6Ik1Gd3dEUVlKS29aSWh2Y05BUUVC
QlFBRFN3QXdTQUpCCQUllOWtwMEk0RTBSNXpzMDN5UlVIK2w3Z3d4MU00eUZcclxuV09vvSE8rQ2VIdnY2UC9Jc
3ZzNy8ybFdUcytIVmp1WVR6SlRWLzM4QmhlRWJ4eUVjMEZWanNIMENNBd0VBQVE9PSIsImV4cCI6MjExNzA1Mz
AxMzIzMTcsImlhdCI6MjAxNzA1MzAxMzIzMTd9.Lq8gXZsX4FdknI0J-pI3nPFPqZg8VxM8-1jGAbkyDdE"
```
 },
  "data": {
    "transactionId": "90382",
    "transactionType": "200",
    "transactionState": "2",
    "queryType": "GW_QUERY_DETAIL",
    "salesAmount": "0",
    "serviceAmount": "0",
    "serviceRate": "0",
    "gstAmount": "0",
    "gstRate": "0",
    "totalAmount": "1",
    "hostResponseDate": "20170411182744",
    "clientRequestDate": "20170411182744",
    "gatewayRequestDate": "20170411182744",
    "gatewayResponseDate": "20170411182745",
    "posConditionCode": "0",
    "stan": "078182",
    "rrn": "845656",
    "authCode": "635512",
    "receiptNumber": "077412",
    "truncatedPan": "************0001",
    "brandName": "Visa",
    "currency": "SGD",
    "cardHolderName": "MCP Card Holder",
    "currentPage": 0,
    "queryFilter": "",
    "totalPage": 0,
    "totalCount": 0,
```

```
    "hostResponseMessage": "Approved or completed successfully",
    "type": "QUERY",
    "gatewayResponseCode": "00",
    "is3DSEnabled": "false",
    "merchant": {
      "shortName": "MC Payment Master Merchant",
       "address": {
                "line1": "Singapore",
                "city": "Singapore",
                "regionCode": "01",
                "postalCode": "502145",
                "country": "Singapore",
                "countryCode": "65",
                "countryCodeAlpha": "25"
            }
    },
    "terminal": {
      "address": {
        "line1": "Tiong Barhu Plaza",
        "line2": "",
        "line3": "",
        "line4": "",
        "line5": "",
        "city": "Singapore",
        "regionCode": "SG",
        "postalCode": "680111",
        "country": "Singapore",
        "countryCode": "702"
      }
    },
    "email": "cardholder@email.com",
    "buyer": "MCP Buyer"
  }
}
```

# EWallet Quick Pay

The Payer shows QR Code on EWallet Quick Pay page to the Vendor to scan in order to pay directly. Called from MPOS terminal, when the user scans the QR Code (applicable for Terminals)

**URI**: /api/v5/ewallet/quickPay
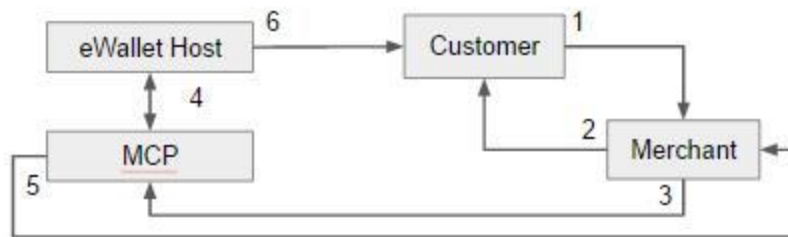


1. Customer purchases good at cashier, generate eWallet QR and present to cashier.
2. Merchant scan the customer's QR using merchant app.
3. App sends a payment request to MCP server.
4. MCP server process request, send to eWallet host, get response from eWallet host.
5. MCP server return the transaction result to merchant app via response or push notification.
6. In the same time of 5, eWallet host push the transaction notification to customer app.

**Request Data:**

| No. | Name | MAX length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 2 | description | ans..32 | String | **M** | Transaction Description |
| 3 | totalAmount | n..18 | String | **M** | Transaction total amount |
| 4 | currency | a3 | String | **M** | Foreign currency type.(e.g. LKR, IDR,SGD,USD) |
| 5 | authCode | ans..1020 | String | **M** | Specifies the authorization code for scanning a barcode/QR Code on Quick Pay |
| 6 | eType | n..16 | String | **M** | Type of eWallet (e.g. WECHAT, ALIPAY Example: WECHAT = 77771 ALIPAY  = 77772 GRABPAY = 77773 THAIQR = 77777 ATOME = 77778 DASH = 77779 |

| | | | | | SCB_PAYNOW = 77780) |
|---|---|---|---|---|---|
| **7** | ipAddress | ans..200 | String | **O** | IP address of application specifies the internet location of user. Format: xxx.xxx.xxx.xxx |
| **8** | itemDetails | ans..6000 | json | **M** | Detailed product list described in JSON format. |
| **9** | itemLabel | ans..32 | String | **O** | Specifies the label of goods. |
| **10** | referenceNo | an..20 | String | O | Unique Reference number provided by client side. ONLY use for querying when request timeout |

**Request sample:**

```
{
  "header": {
    "appType": "A",
    "appVersion": "F1.0.0",
    "version": "5",
    "mcpTerminalId": "7017060001",
    "signature":
"dIiDxUflgSA:APA91bGCQb8_cJxKkqSPihKX-6f2XdPs65eCeZMgEZubnRofXMftVpxiv9lVuLVjjIlB8RnC
LuYDfqkIzA3Mb_5Y4ERGH655VJs3g-FPhurL6cFpFSejdgJFy6lgYCH3nrK6nbaf0YHO"
  },
  "data": {
    "additionalText": "ewallet test",
    "description": "ewallet test",
    "itemDetails": "ewallet test",
    "totalAmount": "5000",
    "currency": "IDR",
    "ipAddress": "172.30.66.44",
    "body": "ewallet  body",
    "authCode": "4628560",
    "eType": "77772",
    "itemLabel": "ewallet test"
    "referenceNo": "52431f516"

  }
}
```

**Response Data :**

| No. | Name | MAX length | Type | Required | Description |
|---|---|---|---|---|---|
| 1 | transactionId | n..18 | String | M | Unique id for each transaction |
| 2 | transactionState | n..10 | String | M | Transaction State USER_PAY(71) case handling * |
| 3 | walletType | n..20 | String | M | Type of eWallet (e.g. WECHAT, ALIPAY Example: WECHAT = 77771 ALIPAY = 77772 GRABPAY = 77773 PAYNOW = 77774 UNIQGIFT = 77775) |
| 4 | walletPayment Type | n..10 | String | M | Transaction Type |
| 5 | totalAmount | n..18 | String | M | Transaction amount |
| 6 | amountSettled | n..18 | String | C | Amount in settleCurrency |
| 7 | currency | 3 | String | M | Transaction currency (Local Currency) Example : **LKR,IDR,SGD,USD** |
| 8 | currencySettled | a3 | String | M | Payment Currency of Final Settlement |
| 9 | amountInCNY | n..18 | String | O | Amount in CNY |
| 10 | referenceNo | an..240 | String | O | The number of the user client query |

**\*USER PAYING / PENDING state: 71  (note : User payment, When the scan, the user needs to enter the password payment, eWallet host (Alipay, Wechat) will return through the interface to pay the state,When the return result is "USER_PAYING", the merchant system can set the interval to re-query the payment results)**

**Response sample:**

```
{
  "header": {
    "version": "2.0.2",
    "appType": "A",
    "appVersion": "F3.00.00",
    "uuid": "353204060925220",
    "status": {
```

```
      "responseCode": "0000",
      "message": ""
    },
    "mcpTerminalId": "7017060001"
  },
  "data": {
    "walletType": "77771",
    "walletPaymentType": "71001",
    "totalAmount": "5000",
    "amountSettled": "39",
    "amountInCNY": "250",
    "currency": "IDR",
    "currencySettled": "USD",
    "transactionState": "2",
    "transactionId": "12035"
    "referenceNo": "52431f516"
  }
}
```

# EWallet Unified Order

This API call allows you to create an advance transaction in the EWallet payment service backend and initiates the payment process via payment by QR Code.

**URI:** api/v5/ewallet/unifiedOrder
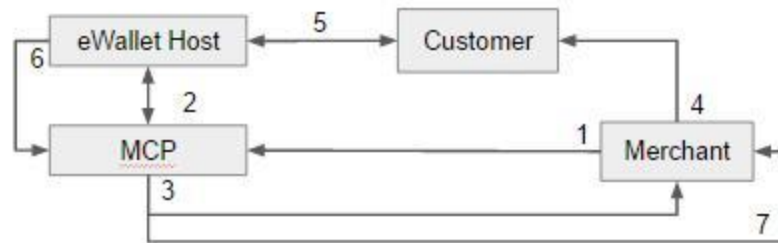


1.  Cashier place order to MCP server using merchant app.
2.  MCP server process request, send order to eWallet host and get order QR url.
3.  MCP server return QR url to merchant app.
4.  Merchant app generates QR code and present to customer.
5.  Customer scans QR using eWallet app, request to eWallet host and get payment result.
6.  eWallet host return payment result to MCP server via callback url.
7.  MCP server send payment result to merchant app via push notification.

**Request Data:**

| No. | Name | MAX length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | amountInCNY | n..18 | String | **O** | Amount in CNY |
| 2 | currency | a3 | String | **M** | Foreign currency type.(e.g. LKR, IDR,SGD,USD) |
| 3 | totalAmount | n..18 | String | **M** | Transaction amount |
| 4 | eType | n..16 | String | **M** | Type of eWallet (e.g. WECHAT, ALIPAY Example: WECHAT = 77771 ALIPAY = 77772 GRABPAY = 77773 EMVQR = 77774 UNIQGIFT = 77775 ALETAQRC = 77776 THAIQR = 77777 ATOME = 77778 DASH = 77779 SCB_PAYNOW = 77780) |

| 5 | description | ans..32 | String | **M** | Transaction description. |
| 6 | amountSettled | n..18 | String | **C** | Payment amount of Final Settlement |
| 7 | clientUrl | ans..256 | String | **O** | The callback url of client web. The transaction result will be sent back this url if specified. Please refer to Ewallet ClientUrl Response |
| 8 | referenceNo | an..20 | String | O | Unique Reference number provided by client side.<br>ONLY use for querying when request timeout |
| 9 | itemDetail | ans..6000 | String | **C** | Item details in Json |

**Request sample:**

```
{
  "header": {
    "version": "5",
    "appType": "APP",
    "appVersion": "1.2.3",
    "mcpTerminalId": "7017060001",
    "signature":
"dIiDxUflgSA:APA91bGCQb8_cJxKkqSPihKX-6f2XdPs65eCeZMgEZubnRofXMftVpxiv9lVuLVjjIlB8RnC
LuYDfqkIzA3Mb_5Y4ERGH655VJs3g-FPhurL6cFpFSejdgJFy6lgYCH3nrK6nbaf0YHO"
  },
  "data": {
    "amountSettled": "5000",
    "currency": "SGD",
    "totalAmount": "5000",
    "description": "ewallet",
    "eType": "77771",
    "referenceNo": "52431f516"

  }
}
```

**Response Data:**

| No. | Name | MAX length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | transactionId | n..18 | String | **M** | Unique id for each transaction |
| 2 | transactionState | n..10 | String | **M** | Transaction State |

| 3 | walletType | n..20 | String | **M** | Type of eWallet (e.g. WECHAT, ALIPAY<br>Example:<br>WECHAT = 77771<br>ALIPAY  = 77772<br>GRABPAY = 77773<br>PAYNOW = 77774<br>UNIQGIFT = 77775) |
|---|---|---|---|---|---|
| 4 | walletPaymentType | n..10 | String | **M** | Transaction Type |
| 5 | totalAmount | n..18 | String | **M** | Transaction total amount |
| 6 | amountSettled | n..18 | String | **C** | Amount in settleCurrency |
| 7 | currency | a3 | String | **M** | Currency of transaction.(e.g. LKR, IDR,SGD,USD) |
| 8 | qrUrl | ans..32 | String | **M** | QRURL which can be used for making payments, Expiration time is 3 minutes |
| 9 | errorMessage | ans..500 | String | **M** | Error Message |
| 10 | currencySettled | a3 | String | **M** | Payment Currency of Final Settlement |
| 12 | referenceNo | an..240 | String | **O** | The number of the user client query |

**\*USER PAYING / PENDING state: 71  (note : User scan QR and enter the password payment, eWallet host (Alipay, Wechat) will return through the interface to pay the state, When the return result is "USER_PAYING", the merchant system can set the interval to re-query the payment results by transaction Id returned)**

**\*\*About Receipt Number**

**The unified order interface generates QR, the user did not scan did not pay, the Alipay system does not exist the order, the receipt number is empty, if the user has not scanned the payment, Alipay system will generate an order, the overtime did not pay, the state changed to Order Close, receipt number Have value**

**Response sample:**

```
{
  "header": {
    "version": "5",
    "appType": "APP",
    "appVersion": "1.2.3",
    "status": {
      "responseCode": "0000",
      "message": ""
```

```
    }
  },
  "data": {
    "transactionId": "12107",
    "transactionState": "71",
    "walletType": "77771",
    "walletPaymentType": "72001",
    "totalAmount": "5000",
    "amountSettled": "39",
    "amountInCNY": "250",
    "currency": "IDR",
    "currencySettled": "USD",
    "qrUrl": "weixin://wxpay/bizpayurl?pr=b5abFwF",
    "errorMessage": ""
    "referenceNo": "52431f516"

  }
}
```

## KBank Alipay

KBank Alipay is a special scenario that only supports K-Payment Gateway in Thailand. In this case, We need to redirect to K-Payment Gateway, K-Payment Gateway redirects to the Alipay QR page.

**URI:** api/v6/kbank/alipay

**\*** In the Request, **clientUrl** is mandatory for redirection to the Merchant page after QR payment is completed.
**\*** In the Response, **qrUrl** is the redirect URL of K-Payment Gateway. Merchant needs to redirect to the **qrUrl.**

Sample requests for KBank Alipay payment: 🗏 KBank Merchant Hosted API - Samples

# EWallet Mini-Program Payment (v6)

Mini Program Payment is a type of Official Account Payment

**URI:** api/v6/ewallet/mini-program-pay

**Request Data:**

| No. | Name | MAX length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | currency | a3 | String | **M** | Foreign currency type.(e.g. LKR, IDR,SGD,USD) |
| 2 | totalAmount | n..18 | String | **M** | Transaction amount |
| 3 | eType | n..16 | String | **M** | Type of eWallet (e.g. WECHAT, ALIPAY Example: WECHAT = 77771 ALIPAY = 77772 GRABPAY = 77773 EMVQR = 77774 UNIQGIFT = 77775 ALETAQRC = 77776 THAIQR = 77777 ATOME = 77778 DASH = 77779 SCB_PAYNOW = 77780) |
| 4 | description | ans..32 | String | **M** | Transaction description. |
| 5 | amountSettled | n..18 | String | **C** | Payment amount of Final Settlement |
| 6 | statustUrl | ans..256 | String | **M** | Callback response send url |
| 7 | referenceNo | an..240 | String | **M** | Unique Reference number provided by client side. ONLY use for querying when request timeout |
| 8 | itemDetail | ans..6000 | String | **C** | Item details in Json |
| 9 | appId | an..64 | String | **C** | Merchant Official Account ID |
| 10 | openId | an..64 | String | **C** | Merchant Open Platform Account |

**Request sample:**

```
{
  "header": {
    "version": "6",
```

```
    "appType": "W",
    "appVersion": "2",
    "mcpTerminalId": "123123"
  },
  "data": {
    "amountSettled": "39",
    "currency": "SGD",
    "totalAmount": "0.01",
    "description": "In-App Payment",
    "eType": "77771",
    "referenceNo": "123123",
    "appId": "wx12345678abcdefg",
    "openId": "oUpF8uMuAJO_M2pxb1Q9zNjWeS6o"
  }
}
```

**Response Data:**

| No. | Name | MAX length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | transactionId | n..18 | String | **M** | Unique id for each transaction |
| 2 | transactionState | n..10 | String | **M** | Transaction State |
| 3 | walletType | n..20 | String | **M** | Type of eWallet (e.g. WECHAT, ALIPAY Example: WECHAT = 77771 ALIPAY = 77772 GRABPAY = 77773 PAYNOW = 77774 UNIQGIFT = 77775) |
| 4 | walletPayment Type | n..10 | String | **M** | Transaction Type In-App Payment TransactionType is UNIFIED ORDER (72001) |
| 5 | totalAmount | n..18 | String | **M** | Transaction total amount |
| 6 | amountSettled | n..18 | String | **C** | Amount in settleCurrency |
| 7 | currency | a3 | String | **M** | Currency of transaction.(e.g. LKR, IDR,SGD,USD) |
| 8 | currencySettled | a3 | String | **M** | Payment Currency of Final Settlement |
| 9 | appId | an..64 | String | **M** | Merchant Official Account ID |

| 10 | package | ans..500 | String | **M** | Value is kind of "prepay_id=123456789" for Mini-Program payment |
|----|---------|----------|--------|-------|----------------------------------------------------------------|
| 11 | nonceStr | ans..64 | String | **M** | Random string |
| 12 | paySign | ans..500 | String | **M** | Signature generated by MCP. |
| 13 | signType | ans..32 | String | **M** | Hash algorithm used for sign |
| 14 | referenceNo | an..240 | String | **C** | Unique Reference number provided by client side. ONLY use for querying when request timeout |
| 15 | timestamp | ans..500 | String | **M** | Timestamp from WeChat in Unix Time Format. Example: 1412000000 |
| 16 | errorMessage | ans..500 | String | **M** | Error Message |

**\*USER PAYING / PENDING state: 71  (note : User scan QR and enter the password payment, eWallet host (Alipay, Wechat) will return through the interface to pay the state, When the return result is "USER_PAYING", the merchant system can set the interval to re-query the payment results by transaction Id returned)**


**Response sample:**

```
{
  "header": {
    "version": "5",
    "appType": "APP",
    "appVersion": "1.2.3",
    "status": {
      "responseCode": "0000",
      "message": ""
    }
  },
  "data": {
    "transactionId": "12107",
    "transactionState": "71",
    "walletType": "77771",
    "walletPaymentType": "72001",
    "totalAmount": "1",
    "amountSettled": "1",
    "currency": "SGD",
    "currencySettled": "SGD",
    "appId": "wx8888888888888888",
    "package": "prepay_id=123456789",
    "nonceStr": "5K8264ILTKCH16CQ2502SI8ZNMTM67VS",
```

```
    "paySign": "C380BEC2BFD727A4B6845133519F3AD6",
    "signType": "MD5",
    "timestamp": "1412000000",
    "errorMessage": ""
    "referenceNo": "52431f516"
  }
}
```

# EWallet In-App Payment (v6)

.

**URI:** /api/v6/ewallet/in-app-pay

**Request Data:**

| No. | Name | MAX length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | currency | a3 | String | **M** | Foreign currency type.(e.g. LKR, IDR,SGD,USD) |
| 2 | totalAmount | n..18 | String | **M** | Transaction amount |
| 3 | eType | n..16 | String | **M** | Type of eWallet (e.g. WECHAT, ALIPAY Example: WECHAT = 77771 ALIPAY = 77772 GRABPAY = 77773 EMVQR = 77774 UNIQGIFT = 77775 ALETAQRC = 77776 THAIQR = 77777 ATOME = 77778 DASH = 77779 SCB_PAYNOW = 77780) |
| 4 | description | ans..32 | String | **M** | Transaction description. |
| 5 | amountSettled | n..18 | String | **C** | Payment amount of Final Settlement |
| 6 | statustUrl | ans..256 | String | **M** | Callback response send url |
| 7 | referenceNo | an..240 | String | **M** | Unique Reference number provided by client side. ONLY use for querying when request timeout |
| 8 | itemDetail | ans..6000 | String | **C** | Item details in Json |
| 9 | appId | an..64 | String | **C** | Merchant Official Account ID |

**Request sample:**

```
{
  "header": {
    "version": "6",
    "appType": "W",
    "appVersion": "2",
```

```
    "mcpTerminalId": "123123"
  },
  "data": {
    "amountSettled": "39",
    "currency": "SGD",
    "totalAmount": "0.01",
    "description": "In-App Payment",
    "eType": "77771",
    "referenceNo": "123123",
    "appId": "wx12345678abcdefg"
  }
}
```

**Response Data:**

| No. | Name | MAX length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | transactionId | n..18 | String | **M** | Unique id for each transaction |
| 2 | transactionState | n..10 | String | **M** | Transaction State |
| 3 | walletType | n..20 | String | **M** | Type of eWallet (e.g. WECHAT, ALIPAY Example: WECHAT = 77771 ALIPAY = 77772 GRABPAY = 77773 PAYNOW = 77774 UNIQGIFT = 77775) |
| 4 | walletPaymentType | n..10 | String | **M** | Transaction Type In-App Payment TransactionType is UNIFIED ORDER (72001) |
| 5 | totalAmount | n..18 | String | **M** | Transaction total amount |
| 6 | amountSettled | n..18 | String | **C** | Amount in settleCurrency |
| 7 | currency | a3 | String | **M** | Currency of transaction.(e.g. LKR, IDR,SGD,USD) |
| 8 | currencySettled | a3 | String | **M** | Payment Currency of Final Settlement |
| 9 | appId | an..64 | String | **M** | Merchant Official Account ID |
| 10 | prepayId | an..128 | String | **M** | Pre-pay session id returned |
| 11 | package | ans..500 | String | **M** | Value is "Sign=WXPay" for |

| | | | | | WeChat In-App |
|---|---|---|---|---|---|
| 12 | nonceStr | ans..64 | String | **M** | Random string |
| 13 | sign | ans..500 | String | **M** | Signature generated by MCP. |
| 14 | referenceNo | an..240 | String | **C** | Unique Reference number provided by client side.<br>ONLY use for querying when request timeout |
| 15 | timestamp | ans..500 | String | **M** | Timestamp from WeChat in Unix Time Format.<br>Example: 1412000000 |
| 16 | errorMessage | ans..500 | String | **M** | Error Message |

**\*USER PAYING / PENDING state: 71  (note : User scan QR and enter the password payment, eWallet host (Alipay, Wechat) will return through the interface to pay the state, When the return result is "USER_PAYING", the merchant system can set the interval to re-query the payment results by transaction Id returned)**

**Response sample:**

```
{
  "header": {
    "version": "5",
    "appType": "APP",
    "appVersion": "1.2.3",
    "status": {
      "responseCode": "0000",
      "message": ""
    }
  },
  "data": {
    "transactionId": "12107",
    "transactionState": "71",
    "walletType": "77771",
    "walletPaymentType": "72001",
    "totalAmount": "5000",
    "amountSettled": "5000",
    "amountInCNY": "250",
    "currency": "SGD",
    "currencySettled": "SGD",
    "appId": "wx8888888888888888",
    "prepayId": "WX1217752501201407033233368018",
    "package": "Sign=WXPay",
    "nonceStr": "5K8264ILTKCH16CQ2502SI8ZNMTM67VS",
    "sign": "C380BEC2BFD727A4B6845133519F3AD6",
    "timestamp": "1412000000",
    "errorMessage": ""
```

```
      "referenceNo": "52431f516"


   }
}
```

# EWallet Void

This API calll initiates a revocation on the EWallet service backend and return the revocation results to the client's process.

**URI:** api/v5/ewallet/revokeOrder

**Request Data:**

| No. | Name | MAX length | Type | Required | Description |
|-----|------|------------|------|----------|-------------|
| 1 | tradeNo | an..240 | String | **M** | Transaction Id generated for each transaction |
| 2 | eType | n..16 | String | **M** | Type of eWallet (e.g. WECHAT, ALIPAY Example:<br>WECHAT = 77771<br>ALIPAY  = 77772<br>GRABPAY = 77773<br>EMVQR = 77774<br>UNIQGIFT = 77775<br>ALETAQRC = 77776<br>THAIQR = 77777<br>ATOME = 77778<br>DASH = 77779<br>SCB_PAYNOW = 77780) |
| 3 | currency | a3 | String | **O** | Foreign currency type.(e.g. LKR, IDR,SGD,USD) |
| 4 | totalAmount | n..18 | String | **C** | Total amount without decimal.<br>SGD 1.23 will be 123 in request.<br>JPY 12000 will be 12000.<br>Required for Partial refund |

**Request sample:**

```
{
    "data": {
        "eType": "77771",
        "tradeNo": "12490",
        "currency": "IDR"
    },
    "header": {
        "appType": "A",
        "appVersion": "F3.00.00",
        "mcpTerminalId": "7017080002",
        "uuid": "353204060925220",
```

```
        "version": "2.0.2"
    }
}
```

## Response Data:

| No. | Name | MAX length | Type | Required | Description |
|---|---|---|---|---|---|
| 1 | walletType | n..20 | String | **M** | Type of eWallet (e.g. WECHAT, ALIPAY Example: WECHAT = 77771 ALIPAY = 77772 GRABPAY = 77773 PAYNOW = 77774 UNIQGIFT = 77775) |
| 2 | walletPaymentType | n..10 | String | **M** | [Transaction Type](#) |
| 3 | transactionId | n..18 | String | **M** | Unique id for each transaction |
| 4 | transactionState | n..10 | String | **M** | [Transaction State](#) |
| 5 | totalAmount | n..18 | String | **M** | Transaction amount |
| 6 | amountSettled | n..18 | String | **C** | Amount in settleCurrency |
| 7 | currency | 3 | String | **M** | Transaction currency (Local Currency) Example : **LKR,IDR,SGD,USD** |
| 8 | currencySettled | a3 | String | **C** | Payment Currency of Final Settlement |

## Response sample:

```
{
    "data": {
        "walletType": "77771",
        "walletPaymentType": "81002",
        "totalAmount": "1",
        "currency": "USD",
        "transactionId": "12694",
        "transactionState": "2"
    },
    "header": {
```

```
        "version": "2.0.2",
        "appType": "A",
        "appVersion": "F3.00.00",
        "uuid": "353204060925220",
        "status": {
            "responseCode": "0000",
            "message": ""
        },
        "mcpTerminalId": "7017080002"
    }
}
```

# EWallet Refund

This API call initiates a Refund on the EWallet service and returns the refund result. (Applicable for WeChat only)

**URI:** api/v5/ewallet/refund

Request Data:

| No. | Name | MAX length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | tradeNo | an..240 | String | **M** | Transaction Id generated for each transaction |
| 2 | eType | n..16 | String | **M** | Type of eWallet (e.g. WECHAT, ALIPAY Example:<br>WECHAT = 77771<br>ALIPAY = 77772<br>GRABPAY = 77773<br>EMVQR = 77774<br>UNIQGIFT = 77775<br>ALETAQRC = 77776<br>THAIQR = 77777<br>ATOME = 77778<br>DASH = 77779<br>SCB_PAYNOW = 77780) |
| 3 | currency | a3 | String | **C** | Foreign currency type.(e.g. LKR, IDR,SGD,USD) |
| 4 | totalAmount | n..18 | String | **C** | Total amount without decimal.<br>SGD 1.23 will be 123 in request.<br>JPY 12000 will be 12000.<br>Required for Partial refund |

**Request sample:**

```
{
    "data": {
        "eType": "77771",
        "tradeNo": "12490",
        "totalAmount": "100",
        "currency": "SGD"
    },
    "header": {
        "appType": "A",
        "appVersion": "F3.00.00",
        "mcpTerminalId": "7017080002",
```

```
        "uuid": "353204060925220",
        "version": "2.0.2"
    }
}
```

Response Data:

| No. | Name | MAX length | Type | Required | Description |
|---|---|---|---|---|---|
| 1 | walletType | n..20 | String | **M** | Type of eWallet (e.g. WECHAT, ALIPAY Example: WECHAT = 77771 ALIPAY = 77772 GRABPAY = 77773 PAYNOW = 77774 UNIQGIFT = 77775) |
| 2 | transactionType | n..10 | String | **M** | [Transaction Type](#) |
| 3 | transactionId | n..18 | String | **M** | Unique id for each transaction |
| 4 | transactionState | n..10 | String | **M** | [Transaction State](#) |
| 5 | totalAmount | n..18 | String | **M** | Transaction amount |
| 6 | amountSettled | n..18 | String | **C** | Amount in settleCurrency |
| 7 | currency | 3 | String | **M** | Transaction currency (Local Currency) Example : **LKR,IDR,SGD,USD** |
| 8 | currencySettled | a3 | String | **C** | Payment Currency of Final Settlement |

**Response sample:**

```
{
    "data": {
        "walletType": "77771",
        "transactionType": "400",
       "totalAmount": "100",
        "currency": "SGD",
        "transactionId": "12694",
        "transactionState": "2"
    },
```
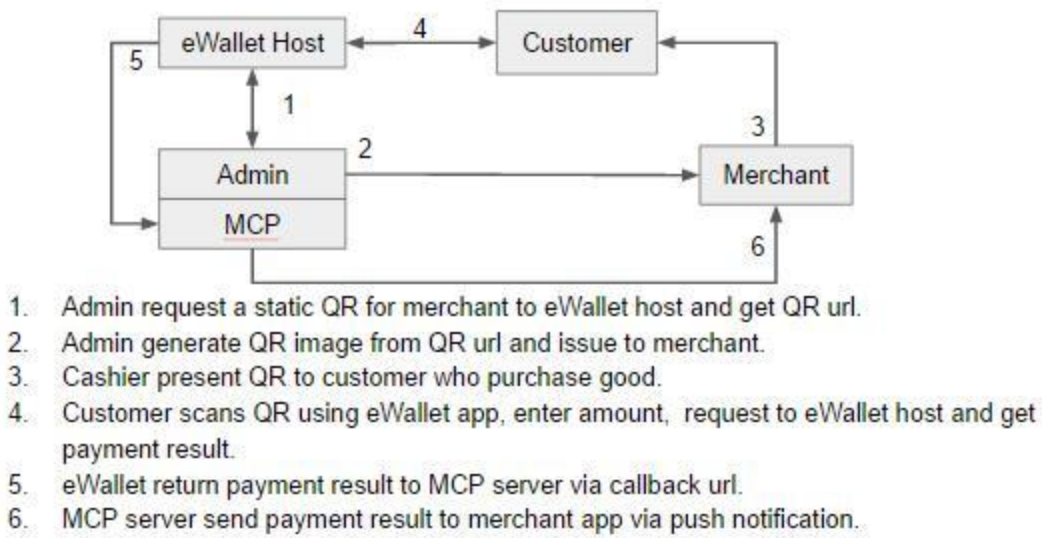
```
    "header": {
        "version": "2.0.2",
        "appType": "A",
        "appVersion": "F3.00.00",
        "uuid": "353204060925220",
        "status": {
            "responseCode": "0000",
            "message": ""
        },
        "mcpTerminalId": "7017080002"
    }
}
```

# EWallet Merchant QR

Admin The background calls this API to get the url of static business QR code. The url is static for each terminal, re-generate it won't change the string of url.

**URI:** api/v5/ewallet/merchantQRPay



1. Admin request a static QR for merchant to eWallet host and get QR url.
2. Admin generate QR image from QR url and issue to merchant.
3. Cashier present QR to customer who purchase good.
4. Customer scans QR using eWallet app, enter amount, request to eWallet host and get payment result.
5. eWallet return payment result to MCP server via callback url.
6. MCP server send payment result to merchant app via push notification.

**Request Data:**

| No. | Name | MAX length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | mcpTerminalId | n..20 | String | M | Terminal  Uniquely identifies |
| 2 | currency | a3 | String | M | Foreign currency type.(e.g. LKR, IDR,SGD,USD) |

**Request sample:**

```
{
  "header": {
    "mcpTerminalId": "7017070001",
    "currency": "IDR"

  }
```

}

## Response Data:

| No. | Name | MAX length | Type | Required | Description |
|-----|------|------------|------|----------|-------------|
| 1 | walletType | n..20 | String | **M** | Type of eWallet (e.g. WECHAT, ALIPAY<br>Example:<br>WECHAT = 77771<br>ALIPAY = 77772<br>GRABPAY = 77773<br>PAYNOW = 77774<br>UNIQGIFT = 77775) |
| 2 | walletPayment Type | n..10 | String | **M** | [Transaction Type](#) |
| 3 | qrUrl | an..240 | String | **M** | Alipay returned the merchant qr code |

## Response sample:

```
{
  "data": {
    "walletType": "77772",
    "walletPaymentType": "73001",
    "qrUrl": "https://qr.alipay.com/ocx08487eei3wbyddzyjc6a"
  },
  "header": {
    "status": {
      "responseCode": "0000",
      "message": ""
    },
    "mcpTerminalId": "7017070001"
  }
}
```

# EWallet ClientUrl Response

The callback url of client web. The transaction result will be sent back this url if specified.

**Response Data:**

| No. | Name | MAX length | Type | Required | Description |
|---|---|---|---|---|---|
| 1 | totalAmount | n..18 | String | **M** | Transaction total amount |
| 2 | localCurrency | a3 | String | **M** | Foreign currency type.(e.g. LKR, IDR,SGD,USD) |
| 3 | transactionState | n..10 | String | **M** | [Transaction State](#) |
| 4 | transactionId | n..18 | String | **M** | Unique id for each transaction |
| 5 | referenceNo | an..240 | String | **O** | The number sent by client side |
| 6 | brandName | an..30 | String | **M** | Brand name determined by primary account number. Visa, Master or Amex. |
| 7 | amountInCNY | n..18 | | | |

**Response sample:**

```
{
  "data": {
    "totalAmount": 1,
    "localCurrency": "USD",
    "transactionState": 2,
    "brandName": "USD",
    "amountInCNY": 12,
    "transactionId": 13026
  }
}
```

# No Authorize Token

To perform to generate token without authorization.

Note: Refund can only be applied to transaction already settled.

**EndPoint:** api/v6/token

**Request data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|-----------|------|----------|-------------|
| 1 | currency | a3 | String | M | Currency of transaction. Must match original transaction. |
| 2 | cardno | n..19 | String | C | Credit Card Number. For eCom & mpos |
| 3 | cardExpiryDate | n4 | String | C | 4- digi card expiry date shown in front of card. Format : YYMM |
| 4 | cardHolderName | an..50 | String | O | Cardholder name |
| 5 | binInfo | a1 | String | O | Y : get bin infomations N : no bin informations |
| 6 | requestTime | n14 | String | O | Request time Format : YYYYMMDDHH24mmSS |

**Request sample:**

```
{
  "header": {
    "mcpTerminalId":"12345671",
  },
  "data": {
    "cardHolderName": "RAY KIM",
    "cardno": "5111111111111118",
    "currency": "MYR",
    "cardExpiryDate": "1812",
    "binInfo": "Y",
    "requestTime": "20180218110218"
  }
}
```

**Response data:**

| No. | Name | Max length | Type | Required | Description |
|---|---|---|---|---|---|
| 1 | mcptid | n..20 | String | M | |
| 2 | cardHolderName | an..50 | String | M | Cardholder name |
| 3 | cardtoken | ans..50 | String | M | Card related information Token Note : Card information not required to provide if request having cardToken |
| 4 | cardBrand | an..50 | String | O | Card Brand Name Ex. VISA, MASTERCARD |
| 5 | brandName | an..50 | String | O | Card Brand Name Ex. VISA, MasterCard |
| 6 | issuingBank | ans100 | String | O | Name of Issuing Bank and Country |
| 7 | cardType | a10 | String | O | CREDIT / DEBIT |
| 8 | responseCode | an4 | String | M | 00 : success |
| 9 | responseMsg | ans..100 | String | C | return blank if success, return error message if request failed |

**Response sample:**

```
{
    "mcptid" : "3118020001",
    "cardHolderName" : "CardOwner",
    "brandName" : "MasterCard",
    "issuingBank" : "U.S. BANK, N.A., UNITED STATES",
    "responseCode" : "00",
    "responseMsg" : "",
    "cardtoken" : "ea5f7ade-1d2a-4efb-986d-23e12b12889b",
    "cardType" : "DEBIT",
    "cardBrand" : "MASTERCARD"
}
```

# Crypto Transaction

Terminal sends the Crypto request to the server. All the data names should follow standard strictly and are case sensitive.

**EndPoint:** api/v6/crypto/payment

**Request data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|------------|------|----------|-------------|
| 1 | mcptid | a40 | String | M | MCP Terminal Id |
| 2 | cryptoCurrency | ans..20 | String | M | Crypto currency code. Ex. BTC, ETH |
| 3 | currency | s..3 | String | M | Currency code of the fiat currency. Ex. USD, SGD, MYR |
| 4 | totalAmount | n..18 | String | M | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| 5 | returnUrl | ans..256 | String | M | Return URL of the merchant. |
| 6 | statusUrl | ans..256 | String | M | Status URL of the merchant. |
| 7 | customerEmail | ans..150 | String | M | Email address of the customer who initiated the payment. |
| 8 | customerGivenName | an..50 | String | M | Name of the customer who initiated the payment. |
| 9 | customerSurName | an..50 | String | M | Surname of the customer who initiated the payment. |
| 10 | referenceNo | an..240 | String | M | Unique Reference number provided by client side. |
| 11 | additional | ans..256 | String | O | Free text |

**Request sample:**

```
{
    "cryptoCurrency": "testBTC",
    "mcptid": "3122030003",
    "currency": "USD",
    "totalAmount": "300",
```

```
    "returnUrl": "https://www.example.com",
    "statusUrl": "https://webhook.site/5f613aa9-26a4-48d2-9b98-ccc3acb42edd",
    "customerEmail": "nishan.w@mcpayment.com",
    "customerGivenName": "example name",
    "customerSurName": "surname",
    "referenceNo": "1653549204",
    "additional": "something additional"
}
```

**Response data:**

| No. | Name | Max length | Type | Required | Description |
|-----|------|------------|------|----------|-------------|
| 1 | authCode | n..14 | String | **M** | Unique payment reference generated by the acquirer. |
| 2 | clientRequestDate | ans..10 | String | **M** | Timestamp of client request transaction. Format: yyyyMMddHHmmss |
| 3 | cryptoAmount | n..10 | Number | **M** | Amount of the payment in selected crypto coins. |
| 4 | cryptoCurrency | a..10 | String | **M** | Currency code of the selected crypto currency. Ex. BTC, ETH, USDT |
| 5 | currency | a..3 | String | **M** | Currency code of the fiat currency. Ex. USD, SGD, LKR |
| 6 | customerEmail | ans..150 | String | **M** | Email address of the customer who initiated the payment. |
| 7 | customerName | an..50 | String | **M** | Name of the customer who initiated the payment. |
| 8 | gatewayRequestDate | n..14 | String | **M** | Timestamp of gateway sending request to bank host. Format: yyyyMMddHHmmss |
| 9 | gatewayResponseDate | n..14 | String | **M** | Timestamp of gateway response.. Format: yyyyMMddHHmmss |
| 10 | hostResponseDate | n..14 | String | **M** | Timestamp returned from bank host. Format: yyyyMMddHHmmss |
| 11 | redirectUrl | ans..256 | String | **M** | Link to the payment page which is provided by the acquirer. |
| 12 | redirectUrlExpiresIn | n..4 | String | **M** | Number of seconds to expire the |

| | | | | | redirectUrl. |
|---|---|---|---|---|---|
| **13** | responseCode | n..4 | String | **M** | Refer to [Appendix - Response codes](#) |
| **14** | totalAmount | n..18 | String | **M** | Total amount without decimal. SGD 1.23 will be 123 in request. JPY 12000 will be 12000. |
| **15** | transactionId | n..18 | String | **M** | Unique id for each transaction. |
| **16** | transactionState | n..2 | String | **M** | [Transaction State](#) |
| **17** | transactionType | n..10 | String | **M** | [Transaction Type](#) |

**Response sample:**

```json
{
    "authCode": "TBC-509978-PMT",
    "clientRequestDate": "20220420145724",
    "cryptoAmount": "0.00007233",
    "cryptoCurrency": "testBTC",
    "currency": "USD",
    "customerEmail": "nishan.w@mcpayment.com",
    "customerName": "John Doe",
    "gatewayRequestDate": "20220420145725",
    "gatewayResponseDate": "20220420145726",
    "hostResponseDate": "20220420145726",
    "redirectUrl":
"https://app.triple-a.io/app/v1/payment_form?access_token=22c9b1d13648c815e237ef197
da810b11d9e6c63&payment_reference=TBC-509978-PMT&select=1",
    "redirectUrlExpiresIn": "1499",
    "responseCode": "0000",
    "totalAmount": "300",
    "transactionId": "130922",
    "transactionState": "USER_PAYING",
    "transactionType": "SALE"
}
```

# Appendix

## Transaction Type

| No. | Type | Value |
|-----|------|-------|
| 1 | PreAuth | 100 |
| 2 | Sale | 200 |
| 3 | Capture | 220 |
| 4 | Void | 300 |
| 5 | Refund | 400 |
| 6 | Chargeback | 402 |
| 7 | 3DS Enrollment | 800 |
| 8 | Quick Pay | 71001 |
| 9 | Unified Order * | 72001 |
| 10 | Merchant QR Pay | 73001 |
| 11 | eWallet Void | 81002 |

\* In-App Payment and Mini Program Payment, TransactionType is UNIFIED ORDER (72001)

# C. Transaction State

| No. | State | Value |
|-----|-------|-------|
| 1 | Requested | 1 |
| 2 | Ok | 2 |
| 3 | Authorized* | 3 |
| 4 | Reversed | 4 |
| 5 | Denied | 5 |
| 6 | Refunded | 11 |
| 7 | Voided | 12 |
| 8 | Captured | 16 |
| 9 | Retrieval** | 17 |
| 10 | User Paying / Pending | 71 |
| 11 | Order Closed*** | 78 |

* For AMEX transaction, MCP Gateway will return 'AUTHORIZED(3)' for PREAUTH. And 'PREAUTH - AUTHORIZED' transaction will be changed to 'SALE - SUCCESS' after auto-settlement.

** If transaction is stated as Retrieval (17), it means this transaction has been raised to Risk Management and proceeded as Chargeback. If need more information on this transaction, please contact MCP Risk Management Team

*** When the user did not proceed payment (scan QR, enter password, enter OTP, etc) within required time (down to different authentication methods and acquirers), the transaction state will be updated to Order Close (78)
Receipt Number case: The unified order interface generates QR, the user did not scan did not pay, the Alipay system does not exist the order, the receipt number is empty, if the user has not scanned the payment, Alipay system will generate an order, the overtime did not pay, the state changed to Order Close, receipt number Have value

# D. Response Codes

| No. | Response Code | Usage | Message | Description |
|-----|---------------|-------|---------|-------------|
| 1 | 0000 or 00 | ALL | N/A | Request Success *It **DOES NOT** mean Transaction has been approved. Check 'transactionState'which is result of transaction |
| 2 | 1211 | AuthTerminal | Request parameter(s) is/are invalid./ not found | Request Failed caused by parameter are invalid/not found |
| 3 | 1213 | AuthTerminal | AppVersion Not Found | Request Header AppVersion null |
| 4 | 1214 | AuthTerminal | AppType Not Found | Request Header AppType null |
| 5 | 2005 | Sale | Terminal disabled | Request failed caused by terminal disabled. |
| 6 | 2011 | Sale | Request parameter(s) is/are invalid./ not found | Request Failed caused by parameter are invalid/not found |
| 7 | 2013 | Sale | AppVersion Not Found | Request Header AppVersion null |
| 8 | 2014 | Sale | AppType Not Found | Request Header AppType null |
| 9 | 2018 | Sale | Invalid Terminal | Request Failed caused by mcp TerminalId are invalid |
| 10 | 2090 | Sale | Sales Denied | The sales transaction is denied |
| 11 | 2105 | Void | Terminal disabled | Request failed caused by terminal disabled. |
| 12 | 2111 | Void | Request parameter(s) is/are invalid./ not found | Request Failed caused by parameter are invalid/not found |
| 13 | 2113 | Void | AppVersion Not Found | Request Header AppVersion null |
| 14 | 2114 | Void | AppType Not Found | Request Header AppType null |
| 15 | 2118 | Void | Invalid Terminal | Request Failed caused by mcp TerminalId are invalid |
| 16 | 2190 | Void | Void Denied | The void transaction is denied |
| 23 | 3205 | Refund | Terminal disabled | Request failed caused by terminal disabled. |
| 24 | 3211 | Refund | Request parameter(s) is/are invalid./ not found | Request Failed caused by parameter are invalid/not found |

| 25 | 3213 | Refund | AppVersion Not Found | Request Header AppVersion null |
|----|------|--------|----------------------|-------------------------------|
| 26 | 3214 | Refund | AppType Not Found | Request Header AppType null |
| 27 | 3218 | Refund | Invalid Terminal | Request Failed caused by mcp TerminalId are invalid |
| 28 | 3290 | Refund | Refund Denied | The refund transaction is denied |
| 29 | 1005 | PreAuth | Terminal disabled | Request failed caused by terminal disabled. |
| 30 | 1011 | PreAuth | Request parameter(s) is/are invalid./ not found | Request Failed caused by parameter are invalid/not found |
| 31 | 1013 | PreAuth | AppVersion Not Found | Request Header AppVersion null |
| 32 | 1014 | PreAuth | AppType Not Found | Request Header AppType null |
| 33 | 1018 | PreAuth | Invalid Terminal | Request Failed caused by mcp TerminalId are invalid |
| 34 | 1090 | PreAuth | PreAuth Denied | The preAuth transaction is denied |
| 35 | 3105 | PreAuth Reverse | Terminal disabled | Request failed caused by terminal disabled. |
| 36 | 3111 | PreAuth Reverse | Request parameter(s) is/are invalid./ not found | Request Failed caused by parameter are invalid/not found |
| 37 | 3113 | PreAuth Reverse | AppVersion Not Found | Request Header AppVersion null |
| 38 | 3114 | PreAuth Reverse | AppType Not Found | Request Header AppType null |
| 39 | 3118 | PreAuth Reverse | Invalid Terminal | Request Failed caused by mcp TerminalId are invalid |
| 40 | 3190 | PreAuth Reverse | PreAuth Reverse Denied | The PreAuth Reverse transaction is denied |
| 41 | 1505 | Capture | Terminal disabled | Request failed caused by terminal disabled. |
| 42 | 1511 | Capture | Request parameter(s) is/are invalid./ not found | Request Failed caused by parameter are invalid/not found |
| 43 | 1513 | Capture | AppVersion Not Found | Request Header AppVersion null |
| 44 | 1514 | Capture | AppType Not Found | Request Header AppType null |
| 45 | 1518 | Capture | Invalid Terminal | Request Failed caused by mcp TerminalId are invalid |
| 46 | 1590 | Capture | capture Denied | The capture transaction is denied |

| 47 | 1591 | Capture | Capture Denied | The Capture Amount is higher than Auth Amount (General Hosts) |
|---|---|---|---|---|
| 48 | 1592 | Capture | Capture Denied | 'Allow Over Capture Amount' is not Enabled (Shopee Pay) |
| 49 | 1593 | Capture | Capture Denied | Balance is not enough (Shopee Pay) |
| 53 | 4005 | Query Detail | Terminal disabled | Request failed caused by terminal disabled. |
| 54 | 4011 | Query Detail | Request parameter(s) is/are invalid./ not found | Request Failed caused by parameter are invalid/not found |
| 55 | 4013 | Query Detail | AppVersion Not Found | Request Header AppVersion null |
| 56 | 4014 | Query Detail | AppType Not Found | Request Header AppType null |
| 57 | 4018 | Query Detail | Invalid Terminal | Request Failed caused by mcp TerminalId are invalid |
| 58 | 4090 | Query Detail | Query Failed | Query failed because of no data matched |
| 59 | 4105 | Query List | Terminal disabled | Request failed caused by terminal disabled. |
| 60 | 4111 | Query List | Request parameter(s) is/are invalid./ not found | Request Failed caused by parameter are invalid/not found |
| 61 | 4113 | Query List | AppVersion Not Found | Request Header AppVersion null |
| 62 | 4114 | Query List | AppType Not Found | Request Header AppType null |
| 63 | 4118 | Query List | Invalid Terminal | Request Failed caused by mcp TerminalId are invalid |
| 64 | 4190 | Query List | Query Failed | Query failed because of no data matched |
| 65 | 7105 | Query Exchange Rate | Terminal disabled | Request failed caused by terminal disabled. |
| 66 | 7111 | Quick Pay | Request parameter(s) is/are invalid./ not found | Request Failed caused by parameter are invalid/not found |
| 67 | 7113 | Quick Pay | AppVersion Not Found | Request Header AppVersion null |
| 68 | 7114 | Quick Pay | AppType Not Found | Request Header AppType null |
| 69 | 7118 | Quick Pay | Invalid Terminal | Request Failed caused by mcp TerminalId are invalid |

| 70 | 7190 | Quick Pay | Quick Pay Failed | The Quick Pay transaction is denied |
|---|---|---|---|---|
| 71 | 7205 | Unified Order | Terminal disabled | Request failed caused by terminal disabled. |
| 72 | 7211 | Unified Order | Request parameter(s) is/are invalid./ not found | Request Failed caused by parameter are invalid/not found |
| 73 | 7213 | Unified Order | AppVersion Not Found | Request Header AppVersion null |
| 74 | 7214 | Unified Order | AppType Not Found | Request Header AppType null |
| 75 | 7218 | Unified Order | Invalid Terminal | Request Failed caused by mcp TerminalId are invalid |
| 76 | 7290 | Unified Order | Unified Order Failed | The Unified Order transaction is denied |
| 77 | 7805 | eWallet Void | Terminal disabled | Request failed caused by terminal disabled. |
| 78 | 7811 | eWallet Void | Request parameter(s) is/are invalid./ not found | Request Failed caused by parameter are invalid/not found |
| 79 | 7813 | eWallet Void | AppVersion Not Found | Request Header AppVersion null |
| 80 | 7814 | eWallet Void | AppType Not Found | Request Header AppType null |
| 81 | 7818 | eWallet Void | Invalid Terminal | Request Failed caused by mcp TerminalId are invalid |
| 82 | 7890 | eWallet Void | Void Failed | The Void transaction is denied |
| 89 | 9910 | ALL | Json object missing | Request Json object is not match server required |
| 90 | 9911 | ALL | Json object error | Request Json object error |
| 91 | 9999 | ALL | Unknown Error | Request failed caused by an unknown error |

## Whitelist

Please add those IP Addresses to your firewall to get response from MCP.

| IP Address |
|---|
| 52.77.179.149<br>18.136.33.21<br>52.221.76.223<br>52.74.64.97<br>52.76.141.203<br>13.251.68.173 |

```
13.228.196.225
13.228.209.218
```