TapPay

Integration Guide

Revision History

Version	Date	Content
1.0.0	2023.01.10	First Draft
1.0.1	2023.05.12	Add Error Code describe
1.0.2	2023.06.12	Change payment API additional cardholder parameter logic

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Introduction

Welcome to TapPay!
TapPay support payment methods including Direct Pay (credit card), Apple Pay, Google Pay. If you have any question or suggestion during the development process, please email to Info.jp@cherricorp.com. Wish you have great development journey.

Note.
Before testing, you can integrate TapPay with a few easy steps:
1.   Register an account and log in TapPay Portal.
2.   Go to "Developer" which is on the top bar.
    1.   Select "Application". You may view your app ID, app key, and bundle name here.
    2.   Select "System settings". Please bind your server's IP address to our server.
    3.   Select "Frontend SDK" to check which type of SDK you want to integrate in your frontend which will be used for "Get Prime".
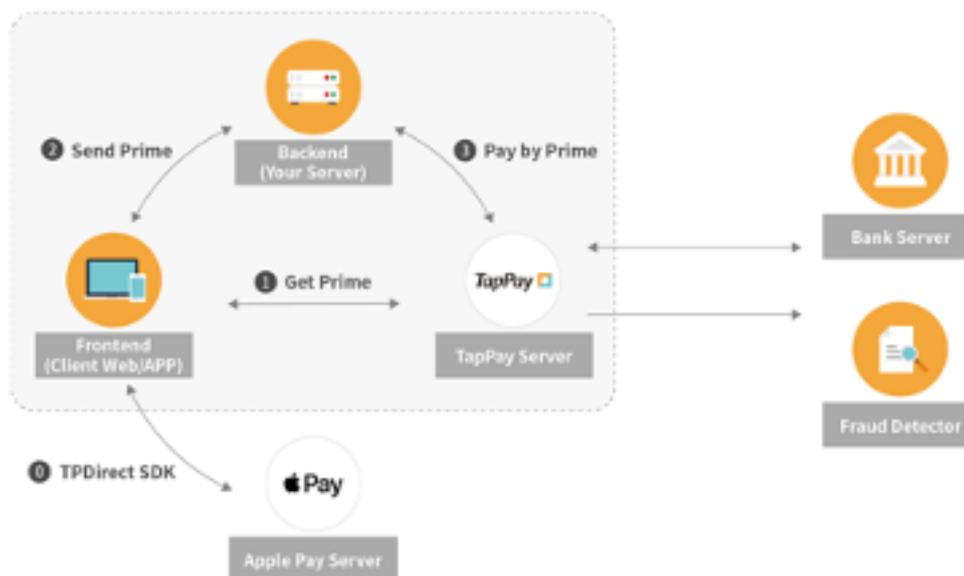
Process diagram

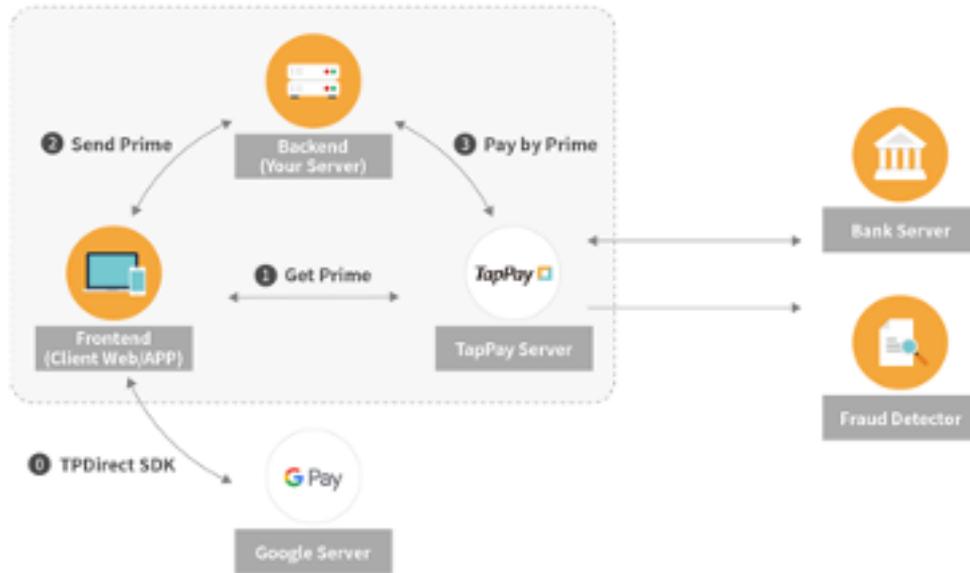## Direct Pay

Direct Pay - Pay by Prime
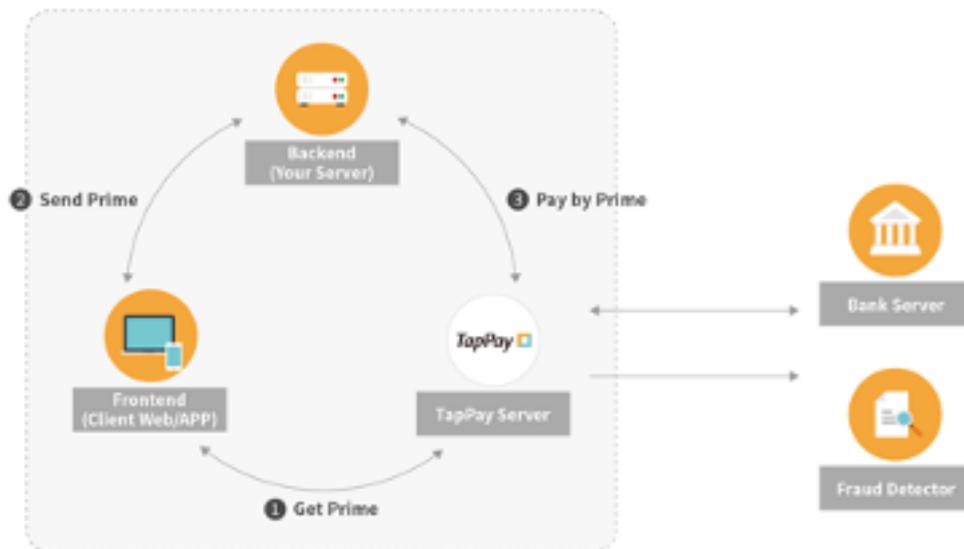
Apple Pay

Apple Pay - Pay by Prime

Google Pay

Google Pay - Pay by Prime

APIs Overview

This document is intended for server/web developers with thorough understanding of HTTP communications and RESTful API.

API	Description
Pay by Prime API	• This API allows you to pay using the prime token obtained from your Frontend. • The prime may only be used once, so you need to create a new token (Get Prime) everytime before you call this API. （Time limit of prime is 90 seconds.） • If the parameter "remember" is set as true, you will get the card_key and card_token in the Pay by Prime API response. You can directly use them to call Pay by Card Token API, so that you can pass the step of "Get Prime". After saving card_key and card_token, you can call Pay by Card Token API to handle recurring transaction on every fixed date or period with fixed amount that you set in your system. This feature doesn't support Apple Pay and Google Pay. • Since the acquirer bank may take time during peak hours, please set the timeout to 30 seconds in your server to avoid out-of-sync transaction information.
Pay by Card Token API	• This API allows you to pay using a permanent card key and card token, thus allowing you to skip create a new token (Get Prime) and Pay by Prime API. • If the parameter "remember" is set as true, you will get the card_key and card_token in Pay by Prime API or Bind Card API response. You can directly use them to call Pay by Card Token API, so that you can pass the step of "Get Prime". After saving card_key and card_token, you can call Pay by Card Token API to handle recurring transaction on every fixed date or period with fixed amount that you set in your system. **This feature doesn't support Apple Pay and Google Pay.** • Since the acquirer bank may take time during peak hours, please set the timeout to 30 seconds in your server to avoid out-of-sync transaction information.
Bind Card API	• This API allows you to pay using the prime token obtained from your Frontend. • The prime may only be used once, so you need to create a new token (Get Prime) every time before you call this API. （Time limit of prime is 90 seconds.） • This process will perform a 1 dollar pre-authorization followed by an immediate refund. • You will get the card_key and card_token in Bind Card API response. You can directly use them to call Pay by Card Token API, so that you can pass the step of "Get Prime". After saving card_key and card_token, you can call Pay by Card Token API to handle recurring transaction on every fixed date or period with fixed amount that you set in your system. **This feature doesn't support Apple Pay and Google Pay.** • Since the acquirer bank may take time during peak hours, please set the timeout to 30 seconds in your server to avoid out-of-sync transaction information.

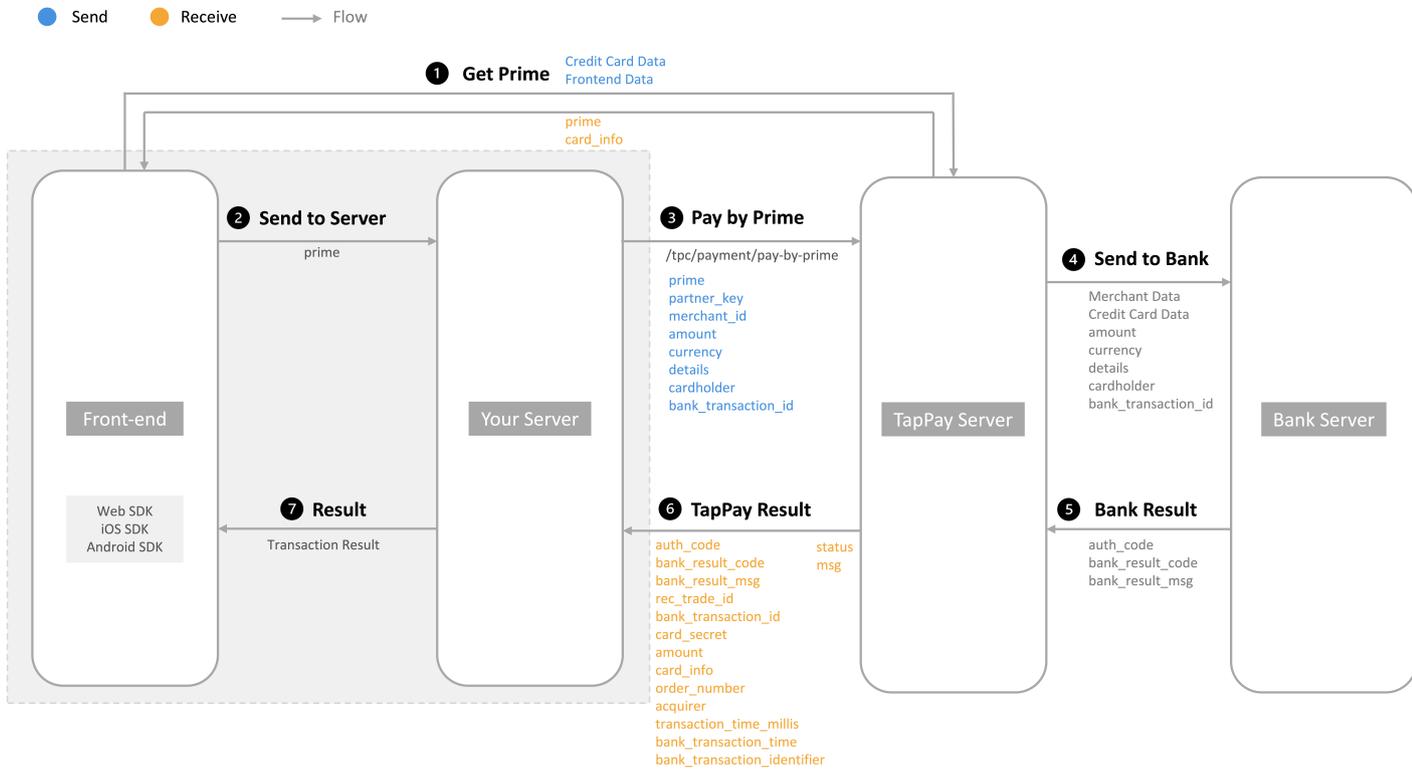| API	Description
Frontend Redirect API	• After 3DS transaction completed, TapPay will redirect to the location of the request parameter result_url > frontend_redirect_url you set in the Pay by Prime/Pay by Card Token/Bind Card API request, and append query string.
Backend Notify API	• After 3DS transaction completed, TapPay will POST to the location of the request parameter result_url > backend_notify_url you set in the Pay by Prime/Pay by Card Token/Bind Card API with transaction result. • When you receive the POST request from TapPay successfully, please return TapPay HttpStatusCode 2xx; otherwise, TapPay would resend it again every 1, 2, 4, 8,16 minutes. It will be resent five times at most, and if all fails, a notification letter will be sent to the contact person's and technical email mailbox. Please follow the instructions to check the latest status of the order to avoid inconsistent transaction status.
Refund API	• This API allows you to refund your transaction, reversing both the capture action as well as the authorization action. If partial refund is required, then this API is also needed. • During peak hour, banks might take longer to process the transaction. To ensure your information is correct, please set your timeout to 30 seconds. • When you call Refund API, TapPay will send the refund request to the banks on the same day. To confirm whether the captured is succeed, we suggest you check the transaction status on TapPay Portal or call Record API to double confirm the transaction status on the next day. • To make sure the consistence of the transaction result between acquiring banks and TapPay. It's not allowed to call Refund API during capping time of acquiring banks.
Record API	• This API allows you to get the trade records.
Cap Today API	• This API allows you to put the payment into the capture schedule today. • After a customer makes a payment, it will undergo the following process: Authorize > Capture > Bank processing > Success. The time period between a payment goes from being authorized to being captured can be modified when calling our payment APIs. However, should you change your mind in between, you may call this API to put the payment into the capture schedule today. • When you call Cap Today API, TapPay will send the capture request to the banks on the same day. To confirm whether the captured is succeed, we suggest you check the transaction status on TapPay Portal or call Record API to double confirm the transaction status on the next day. • During peak hour, banks might take longer to process the transaction. To ensure your information is correct, please set your timeout to 30 seconds.
Cap Cancel API	• This API can remove the specific payment be remove out in the capture schedule today, please use it before the bank processes it.
Remove Card API	• This API will allow you to delete a card_key and card_token from our server. • During peak hour, banks might take longer to process the transaction. To ensure your information is correct, please set your timeout to 30 seconds.
Trade History API	• This API allows you to get the specific payment trade history.

API	Description
Card Metadata API	• After enable TSP service, you will be able to call this API to get card detailed infomation(e.x. card face, type, issuer, Cobrand etc.) * **To enable TSP service, please contact TapPay sales.**
Card Notify API	• After enable TSP service, you will be informed the updated card information by this API every hour, which the card type has been changed (include Visa and MasterCard) during last hour. • User provide tsp_notify_url to TapPay, set the URL for the TSP card update notification. * **To enable TSP service, please contact TapPay sales.** * **Only available in Prod environment.**
Card Notify API Sandbox	• After enable TSP service, you will be informed by Card Notify API through tsp_notify_url you set.(Please refer to Card Notify API for conditions) • The purpose of this API is to make sure you can get the notification correctly. Merchant provide tsp_notify_url to TapPay, set the URL for the TSP card update notification. * **Only available in Sandbox environment.**
Get Member Card API	• For returning the cards info which had bound under each member id.
Update Cardholder API	• This API allows you to modify the cardholder information. Once you update the cardholder information, TapPay will only keep the latest information.
Check Affiliate Code API	• You can make sure if this card belongs to the affiliate code you set. • If you want to know whether this bincode belongs to affiliate code under the affiliate code group you set, please bring the parameter affiliate_code_group_name as well.
Push Token API	• You should enable TSP service first and file application to TapPay Support to activate Token Push service. • To onboard Token Push service, you should register for MDES Token Connect Platform and complete all test cases. • This API is aiming at binding a card to your app by selecting a Mastercard card from the issuer app, and you will get Card Key, Card Token in the response. * **This service has regional restrictions, please contact TapPay sales.**
Reconciliation API	• This API allows you to get the capturing and refunding result between TapPay and the banks. • To know the latest reconciliation result, please search the information after 14:00pm. • This API only support to get the data of transaction after 2020/10/16. • Please notice that the number of days between start_time_millis and end_time_millis can't be longer than 31 days.
Create Affiliate Code API	You can do the following things via this API • Create a new affiliate code, and add fpan_bincodes or token_bincodes to it. • Add the fpan_bincodes or token_bincodes you need to the specific affiliate code. • Need at least one bincode (fpan_bincodes or token_bincodes) when using this API. • If you want to modify the fpan_bincode or token_bincode under affiliate code, please add the needed one via Create Affiliate Code API, then use Delete Affiliate Code API to remove the one you don't need.

API	Description
Delete Affiliate Code API	You can do the following things via this API • Delete fpan_bincodes or token_bincodes under the specific affiliate code. • Delete affiliate code.
Create Affiliate Code Group API	You can do the following things via this API • Create a new affiliate code group, and add affiliate codes to it. • Add the fpan_bincodes / token_bincodes you need to the specific affiliate code. • If you want to modify affiliate codes under affiliate code group, please add the needed one via Create Affiliate Code Group API, then use Delete Affiliate Code Group API to remove the one you don't need.
Delete Affiliate Code Group API	You can do the following things via this API • Delete affiliate codes under the specific affiliate code group. • Delete affiliate code group.

APIs Specification

The detailed specification of TapPay backend API is as follows:

Pay by Prime API

Send   Receive   ⟶ Flow

1 Get Prime Credit Card Data
Frontend Data

prime
card_info

2 Send to Server
prime

3 Pay by Prime
/tpc/payment/pay-by-prime

prime
partner_key
merchant_id
amount
currency
details
cardholder
bank_transaction_id

4 Send to Bank

Merchant Data
Credit Card Data
amount
currency
details
cardholder
bank_transaction_id

Front-end

Your Server

TapPay Server

Bank Server

Web SDK
iOS SDK
Android SDK

7 Result
Transaction Result

6 TapPay Result

auth_code
bank_result_code
bank_result_msg
rec_trade_id
bank_transaction_id
card_secret
amount
card_info
order_number
acquirer
transaction_time_millis
bank_transaction_time
bank_transaction_identifier

status
msg

5 Bank Result

auth_code
bank_result_code
bank_result_msg

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Pay by prime - Request

Post
Sandbox：https://sandbox.tappaysdk.com/tpc/payment/pay-by-prime
Production：https://prod.tappaysdk.com/tpc/payment/pay-by-prime

Header
Content-Type：application/json

x-api-key：Your TapPay partner key

Item	Required	Type	Description
prime	Y	String(67)	One time token returned from getPrime by TapPay SDK. The prime will be expired after 90 seconds. If using Apple Pay Deferred Payments, please keep prime by yourself.(The duration of each prime is set up for 30 days as default.) It will be used by calling Pay By Prime API or Bind Card API. You can use these prime for test in **Sandbox** environment. **Direct Pay =** test_3a2fb2b7e892b914a03c95dd4dd5dc7970c908df67a49527c0a648b2bc9 **Apple Pay(amount should be set to 12) =** ap_test_utigjeyfutj5867uyjhuty47rythfjru485768tigjfheufhtu5i6ojk **Google Pay(Tokenize) =** gp_test_utigjeyfutj5867uyjhuty47rythfjru485768tigjfheufhtu5i6ojk **Google Pay(Real Card) =** gp_test_kjo6i5uthfuehfjgit867584urjfhtyr74ytuhjyu7685jtufyejgitu
partner_key	Y	String(64)	Authentication key for each individual partner.
merchant_id	Y	String(50)	Involved merchant's identifier as defined on Portal.
merchant_group_id	N	String(50)	The merchant management settings set on the portal, transactions will be performed according to the portal's payment configuration during the transaction. * **Cannot be used with merchant_id at the same time.**

Item	Required	Type	Description
amount	Y	int	Transaction price. TapPay currently only supports Taiwan Dollar, Japanese Yen, Hong Kong Dollar, Malaysian Ringgit, and US Dollar. Except for TWD and JPY, transaction price should times 100. For instance, if transaction price is HKD1, please fill in 100 in this parameter. TWD：Lower limit of each transaction is NTD 1, upper limit of each transaction is NTD 20,000,000. Please fill in 1 when the transaction is TWD 1. JPY：Lower limit of each transaction is JPY 1, upper limit of each transaction is JPY 1,300,000. Please fill in 1 when the transaction is JPY 1. HKD：Lower limit of each transaction is HKD 0.01, upper limit of each transaction is HKD 252,500. Please fill in 101 when the transaction is HKD 1.01 MYR：Lower limit of each transaction is MYR 0.01, upper limit of each transaction is MYR 135,000. Please fill in 101 when the transaction is MYR 1.01 USD: Lower limit of each transaction is USD 0.01, upper limit of each transaction is USD 33,169. Please fill in 101 when the transaction is USD 1.01
currency	N	String(3)	The letter abbreviation for currency, following ISO 4217. * **Default value is TWD**
order_number	N	String(50)	A merchant self-defined identifier for each transaction in TapPay. This parameter is optional, but once use this parameter, the value can not be empty.
bank_transaction_id	N	String(40)	Transaction identifier for the bank. You may customize one here if you wish, but it must be unique, if not, then TapPay will generate a random one. * **We strongly recommend you to define the unique bank_transaction_id by yourself to prevent when a 421 error occurs, the transaction cannot be checked back.**
details	Y	String(100)	Details of the transaction. You should include as much information as possible. It will help our fraud detector in distinguishing real and fake transaction.
cardholder	Y	JSONObject	The card owner information

Item	Required	Type	Description
cardholder.phone_number	Y	String(40)	Cellphone number *** It is recommended to fill in the same number that the cardholder apply the credit card in the issuing bank.**
cardholder.name	Y	String(40)	Name
cardholder.email	Y	String(140)	E-mail address
cardholder.zip_code	N	String(40)	Zip code number
cardholder.address	N	String(90)	Billing address
cardholder.national_id	N	String(40)	National ID
cardholder.member_id	N	String(64)	Member ID customized by merchant *** Only available in Direct Pay**
cardholder.city	N	String(500)	City
cardholder.country_code	N	String(2)	Country Code (ISO 3166-1 Alphabetical Code)
delay_capture_in_days	N	int	The number of days between the time bank authorizes the payment and the time bank actually captures the payment. Default is 0. If you wish to capture the payment yourself, use -1 as the value to disable automatic capture. Each acquiring bank has its capture deadline, please confirm with your acquiring bank before deciding your capture period. Be aware that your captures might be failed if you didn't complete the capture by the banks capture deadline.
three_domain_secure	N	Boolean	Whether to use this parameter or not, default value is false.
result_url	N	JSONObject	Required when three_domain_secure = true
result_url.frontend_redirect_url	N	String(500)	The frontend website URL of the merchant where the customer will be brought to after finishing transaction process on 3D verification. This URL must start with https.
result_url.backend_notify_url	N	String(500)	The backend URL of the merchant server to receive the transaction result. Must start with https, only suport 443 port.
remember	N	Boolean	To save the card number or not. *** Only available in Direct Pay**
additional_data	N	String(3000)	Data will be encrypted and decrypted when other customization requirements.

Pay by prime - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.
rec_trade_id	String(20)	Unique identifier for this transaction generated by TapPay.
bank_transaction_id	String(40)	Transaction identifier for the bank. You may customize one here if you wish, but it must be unique, if not, then TapPay will generate a random one. *** We strongly recommend you to define the unique bank_transaction_id by yourself to prevent when a 421 error occurs, the transaction cannot be checked back.**
auth_code	String(6)	Bank authorization code.
card_secret	JSONObject	Contains the card key and token. *** Only available in Direct Pay**
card_secret.card_token	String(67)	Card token. It will be used when calling Pay by Card Token API.
card_secret.card_key	String(64)	Card authorization key. It will be used when calling Pay by Card Token API.It will be used when calling Pay by Card Token API.
amount	int	Transaction price.
currency	String(3)	The letter abbreviation for currency, following ISO 4217.
card_info	JSONObject	Credit card information
card_info.bin_code	String(6)	First six digits of the card
card_info.last_four	String(4)	Last four digits of the card
card_info.issuer	String	Card issuer
card_info.issuer_zh_tw	String	Issuer chinese name *** If the issuing bank is not in Taiwan, this value will be an empty**
card_info.bank_id	String	Bank identifier *** If the issuing bank is not in Taiwan, this value will be an empty**
card_info.funding	int	Card usage -1 = Unknown 0 = Credit Card 1 = Debit Card 2 = Prepaid Card

Item	Type	Description
card_info.type	int	Card type -1 = Unknown 1 = VISA 2 = MasterCard 3 = JCB 5 = AMEX
card_info.level	String	Card level
card_info.country	String	Country of card issuer
card_info.country_code	String	Country code of card issuer
card_info.expiry_date	String	Card expired date, Format : YYYYMM When request param of remember equals true will return. *** Only available in Direct Pay**
order_number	String(50)	A merchant self-defined identifier for each transaction in TapPay.
merchant_id	String(50)	Involved merchant's identifier as defined on Portal.
acquirer	String	Acquiring banks or payment processors.
transaction_time_millis	long	Time of transaction.
bank_transaction_time	JSONObject	Time when the bank handles the transaction.
bank_transaction_time.start_time _millis	String	Start time.
bank_transaction_time.end_time _millis	String	End time.
bank_result_code	String(40)	Response code from the bank.
bank_result_msg	String(300)	Response message from the bank.
payment_url	String	Payment redirect url, please send it to frontend.
card_identifier	String	Card identifier. Each credit card will only have one card identifier.
merchant_reference_info	JSONObject	Merchant reference information
merchant_reference_info.affiliate _codes	Array	This parameter will be returned when the merchant uses the feature of Affiliate Code in TapPay Portal and the transaction match the setting.

Item	Type	Description
is_rba_verified	Boolean	It is used to judge whether the transaction has passed the Cherri X transaction risk assessment. *** Cherri X transaction risk assessment can evaluate the risk for each transaction to identify and prevent counterfeit transaction. For more information, please contact our sales.**
transaction_method_details	JSONObject	Transaction method details.
transaction_method_details.transaction_method	String	THREE_DOMAIN_SECURE: Means the transaction was sent to the bank with 3D secure. FRICTIONLESS: Means the transaction was sent to the bank with frictionless.
transaction_method_details.transaction_method_reference	String	RBA: Means the transaction method was decided by RBA rule setting. REQUEST: Means the transaction method was decided by the request specification that the merchant set in the payment request. *** Cherri X transaction risk assessment can evaluate the risk for each transaction to identify and prevent counterfeit transaction. For more information, please contact our sales.**

Pay by Card Token API
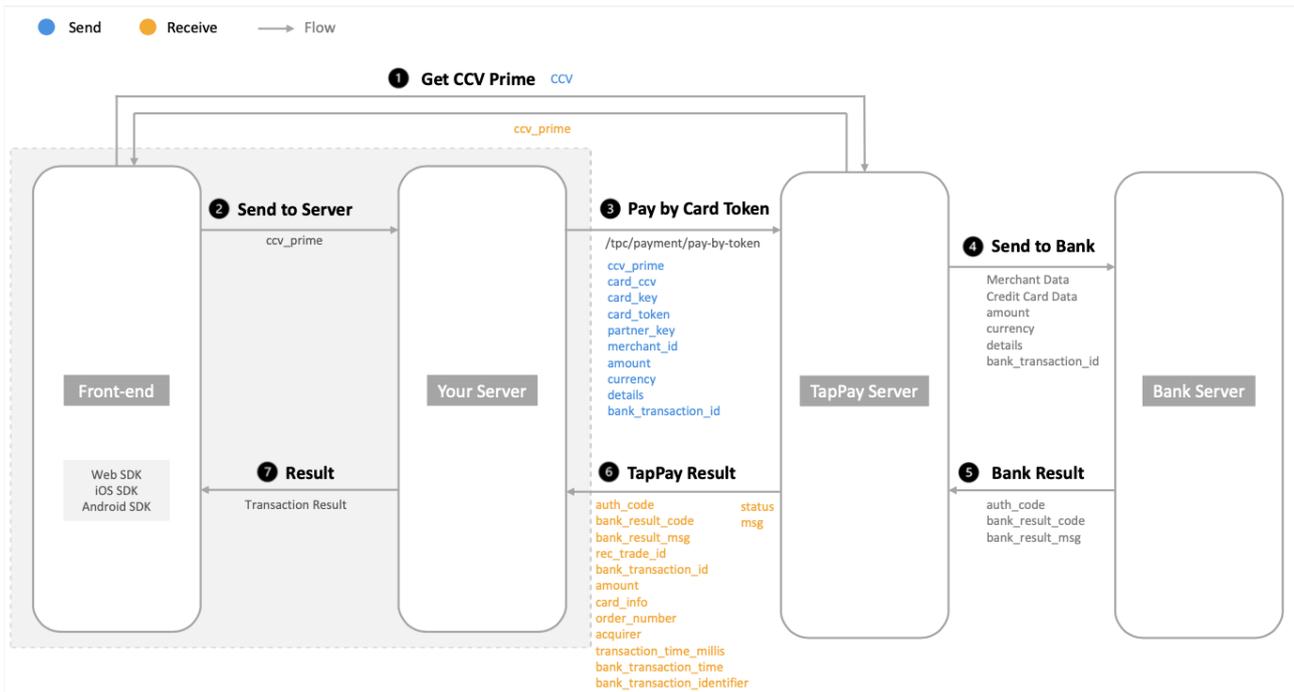
Pay by card token - Request

Post

Sandbox：https://sandbox.tappaysdk.com/tpc/payment/pay-by-token

Production：https://prod.tappaysdk.com/tpc/payment/pay-by-token

Header

Content-Type：application/json

x-api-key：Your TapPay partner key

Item	Required	Type	Description
card_key	Y	String(64)	Card key from Pay by Prime API or Bind Card API response when remember equals true
card_token	Y	String(67)	Card token from Pay by Prime API or Bind Card API response when remember equals true
partner_key	Y	String(64)	Authentication key for each individual partner.
merchant_id	Y	String(50)	Involved merchant's identifier as defined on Portal.
merchant_group_id	N	String(50)	The merchant management settings set on the portal, transactions will be performed according to the portal's payment configuration during the transaction. *** Cannot be used with merchant_id at the same time.**

Item	Required	Type	Description
amount	Y	int	Transaction price. TapPay currently only supports Taiwan Dollar, Japanese Yen, Hong Kong Dollar, Malaysian Ringgit, and US Dollar. Except TWD and JPY, transaction price should times 100. For instance, if transaction price is HKD1, please fill in 100 in this parameter. TWD：Lower limit of each transaction is NTD 1, upper limit of each transaction is NTD 20,000,000. Please fill in 1 when the transaction is TWD 1. JPY：Lower limit of each transaction is JPY 1, upper limit of each transaction is JPY 1,300,000. Please fill in 1 when the transaction is JPY 1. HKD：Lower limit of each transaction is HKD 0.01, upper limit of each transaction is HKD 252,500. Please fill in 101 when the transaction is HKD 1.01 MYR：Lower limit of each transaction is MYR 0.01, upper limit of each transaction is MYR 135,000. Please fill in 101 when the transaction is MYR 1.01 USD: Lower limit of each transaction is USD 0.01, upper limit of each transaction is USD 33,169. Please fill in 101 when the transaction is USD 1.01
currency	N	String(3)	The letter abbreviation for currency, following ISO 4217. * **Default value is TWD**
order_number	N	String(50)	A merchant self-defined identifier for each transaction in TapPay. This parameter is optional, but once use this parameter, the value can not be empty.
bank_transaction_id	N	String(40)	Transaction identifier for the bank. You may customize one here if you wish, but it must be unique, if not, then TapPay will generate a random one. * **We strongly recommend you to define the unique bank_transaction_id by yourself to prevent when a 421 error occurs, the transaction cannot be checked back.**
details	Y	String(100)	Details of the transaction. You should include as much information as possible. It will help our fraud detector in distinguishing real and fake transaction.

Item	Required	Type	Description
delay_capture_in_days	N	int	The number of days between the time bank authorizes the payment and the time bank actually captures the payment. Default is 0. If you wish to capture the payment yourself, use -1 as the value to disable automatic capture. Each acquiring bank has its capture deadline, please confirm with your acquiring bank before deciding your capture period. Be aware that your captures might be failed if you didn't complete the capture by the banks capture deadline.
three_domain_secure	N	Boolean	Whether to use this parameter or not, default value is false.
result_url	N	JSONObject	Required when three_domain_secure = true
result_url.frontend_redirect_url	N	String(500)	The frontend website URL of the merchant where the customer will be brought to after finishing transaction process on 3D verification. This URL must start with https.
result_url.backend_notify_url	N	String(500)	The backend URL of the merchant server to receive the transaction result. Must start with https, only suport 443 port.
card_ccv	N	String(4)	Security code. Cannot be used with ccv_prime at the same time. Required when there are the following situations： 1. Didn't get ccv_prime from get-ccv-prime but you need the bank to verify the security code. 2. 2. Didn't get ccv_prime from get-ccv-prime but use the AE card for 3DS2.0 verification transactions. *** Only available in Direct Pay**
additional_data	N	String(3000)	Data will be encrypted and decrypted when other customization requirements.
ccv_prime	N	String	The one time token of security code returned from get-ccv-prime. Cannot be used with card_ccv at the same time. It will be expired after 90 seconds. You can use these ccv_prime for test in sandbox environment ccv_prime(3 digits): test_65b1ca2d5d0dc8ff5b62296ea8547bab08401f8a57015fb818c5bcd10433fa11 ccv_prime(4 digits): test_cd1e737890874cdadf39caaf56c5b183c36a4117ca89cb24fd674c0892e0fa92
device_id	N	String(64)	ID of each device. This parameter must be put into the request body when you use the Cherri X transaction risk assessment. *** The way to obtain device id is to use "Get Device Id" function of TapPay SDK.**

Pay by card token - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.
rec_trade_id	String(20)	Unique identifier for this transaction generated by TapPay.
bank_transaction_id	String(40)	Transaction identifier for the bank. You may customize one here if you wish, but it must be unique, if not, then TapPay will generate a random one. *** We strongly recommend you to define the unique bank_transaction_id by yourself to prevent when a 421 error occurs, the transaction cannot be checked back.**
auth_code	String(6)	Bank authorization code.
amount	int	Transaction price.
currency	String(3)	The letter abbreviation for currency, following ISO 4217.
card_info	JSONObject	Credit card information
card_info.bin_code	String(6)	First six digits of the card
card_info.last_four	String(4)	Last four digits of the card
card_info.issuer	String	Card issuer
card_info.issuer_zh_tw	String	Issuer Chinese name *** If the issuing bank is not in Taiwan, this value will be an empty**
card_info.bank_id	String	Bank identifier *** If the issuing bank is not in Taiwan, this value will be an empty**
card_info.funding	int	Card usage -1 = Unknown 0 = Credit Card 1 = Debit Card 2 = Prepaid Card
card_info.type	int	Card type -1 = Unknown 1 = VISA 2 = MasterCard 3 = JCB 5 = AMEX
card_info.level	String	Card level
card_info.country	String	Country of card issuer
card_info.country_code	String	Country code of card issuer

Item	Type	Description
card_info.expiry_date	String	Card expired date, Format : YYYYMM When request param of remember equals true will return. *** Only available in Direct Pay**
order_number	String(50)	A merchant self-defined identifier for each transaction in TapPay.
merchant_id	String(50)	Involved merchant's identifier as defined on Portal.
acquirer	String	Acquiring banks or payment processors.
transaction_time_millis	long	Time of transaction.
bank_transaction_time	JSONObject	Time when the bank handles the transaction.
bank_transaction_time.start_time _millis	String	Start time.
bank_transaction_time.end_time _millis	String	End time.
bank_result_code	String(40)	Response code from the bank.
bank_result_msg	String(300)	Response message from the bank.
payment_url	String	Payment redirect url, please send it to frontend.
card_identifier	String	Card identifier. Each credit card will only have one card identifier.
merchant_reference_info	JSONObject	Merchant reference information
merchant_reference_info.affiliate _codes	Array	This parameter will be returned when the merchant uses the feature of Affiliate Code in TapPay Portal and the transaction match the setting.
is_rba_verified	Boolean	It is used to judge whether the transaction has passed the Cherri X transaction risk assessment. *** Cherri X transaction risk assessment can evaluate the risk for each transaction to identify and prevent counterfeit transaction. For more information, please contact our sales.**
transaction_method_details	JSONObject	Transaction method details.
transaction_method_details.tran saction_method	String	THREE_DOMAIN_SECURE: Means the transaction was sent to the bank with 3D secure. FRICTIONLESS: Means the transaction was sent to the bank with frictionless.

Item	Type	Description
transaction_method_details.transaction_method_reference	String	RBA: Means the transaction method was decided by RBA rule setting. REQUEST: Means the transaction method was decided by the request specification that the merchant set in the payment request. *** Cherri X transaction risk assessment can evaluate the risk for each transaction to identify and prevent counterfeit transaction. For more information, please contact our sales.**

Bind Card API

Bind Card - Request

Post
Sandbox：https://sandbox.tappaysdk.com/tpc/card/bind
Production：https://prod.tappaysdk.com/tpc/card/bind

Header
Content-Type：application/json
x-api-key：Your TapPay partner key

Item	Required	Type	Description
prime	Y	String(67)	One time token returned from getPrime by TapPay SDK. The prime will be expired after 90 seconds. It will be used by calling Pay By Prime API or Bind Card API. You can use this prime for test in **Sandbox** environment. **Direct Pay =** test_3a2fb2b7e892b914a03c95dd4dd5dc7970c908df67a49527c0a648b2bc9
partner_key	Y	String(64)	Authentication key for each individual partner.
merchant_id	Y	String(50)	Involved merchant's identifier as defined on Portal.
merchant_group_id	N	String(50)	The merchant management settings set on the portal, transactions will be performed according to the portal's payment configuration during the transaction. *** Cannot be used with merchant_id at the same time.**
currency	N	String(3)	The letter abbreviation for currency, following ISO 4217. *** Default value is TWD**
cardholder	Y	JSONObject	The card owner information
cardholder.phone_number	Y	String(40)	Cellphone number *** It is recommended to fill in the same number that the cardholder apply the credit card in the issuing bank.**
cardholder.name	Y	String(40)	Name
cardholder.email	Y	String(140)	E-mail address
cardholder.zip_code	N	String(40)	Zip code number
cardholder.address	N	String(90)	Billing address

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Item	Required	Type	Description
cardholder.national_id	N	String(40)	National ID
cardholder.member_id	N	String(64)	Member ID customized by merchant *** Only available in Direct Pay**
cardholder.city	N	String(500)	City
cardholder.country_code	N	String(2)	Country Code (ISO 3166-1 Alphabetical Code)
three_domain_secure	N	Boolean	Whether to use this parameter or not, default value is false.
result_url	N	JSONObject	Required when three_domain_secure = true
result_url.frontend_redirect_url	N	String(500)	The frontend website URL of the merchant where the customer will be brought to after finishing transaction process on 3D verification. This URL must start with https.
result_url.backend_notify_url	N	String(500)	The backend URL of the merchant server to receive the transaction result. Must start with https, only suport 443 port.

Bind Card - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.
rec_trade_id	String(20)	Unique identifier for this transaction generated by TapPay.
order_id	String(40)	Transaction identifier for the bank. Same as bank_transaction_id, but the name of the parameter in Bind Card API is order_id.
auth_code	String(6)	Bank authorization code.
card_secret	JSONObject	Contains the card key and token. *** Only available in Direct Pay**
card_secret.card_token	String(67)	Card token. It will be used when calling Pay by Card Token API.
card_secret.card_key	String(64)	Card authorization key. It will be used when calling Pay by Card Token API.It will be used when calling Pay by Card Token API.
currency	String(3)	The letter abbreviation for currency, following ISO 4217.
card_info	JSONObject	Credit card information
card_info.bin_code	String(6)	First six digits of the card
card_info.last_four	String(4)	Last four digits of the card

Item	Type	Description
card_info.issuer	String	Card issuer
card_info.issuer_zh_tw	String	Issuer chinese name *** If the issuing bank is not in Taiwan, this value will be an empty**
card_info.bank_id	String	Bank identifier *** If the issuing bank is not in Taiwan, this value will be an empty**
card_info.funding	int	Card usage -1 = Unknown 0 = Credit Card 1 = Debit Card 2 = Prepaid Card
card_info.type	int	Card type -1 = Unknown 1 = VISA 2 = MasterCard 3 = JCB 5 = AMEX
card_info.level	String	Card level
card_info.country	String	Country of card issuer
card_info.country_code	String	Country code of card issuer
card_info.expiry_date	String	Card expired date, Format : YYYYMM When request param of remember equals true will return. *** Only available in Direct Pay**
order_number	String(50)	A merchant self-defined identifier for each transaction in TapPay.
merchant_id	String(50)	Involved merchant's identifier as defined on Portal.
acquirer	String	Acquiring banks or payment processors.
millis	long	Time of transaction.
bank_transaction_time	JSONObject	Time when the bank handles the transaction.
bank_transaction_time.start_time_millis	String	Start time.
bank_transaction_time.end_time_millis	String	End time.
bank_result_code	String(40)	Response code from the bank.
bank_result_msg	String(300)	Response message from the bank.
payment_url	String	Payment redirect url, please send it to frontend.
card_identifier	String	Card identifier. Each credit card will only have one card identifier.

Item	Type	Description
is_rba_verified	Boolean	It is used to judge whether the transaction has passed the Cherri X transaction risk assessment. *** Cherri X transaction risk assessment can evaluate the risk for each transaction to identify and prevent counterfeit transaction. For more information, please contact our sales.**
transaction_method_details	JSONObject	Transaction method details.
transaction_method_details.transaction_method	String	THREE_DOMAIN_SECURE: Means the transaction was sent to the bank with 3D secure. FRICTIONLESS: Means the transaction was sent to the bank with frictionless.
transaction_method_details.transaction_method_reference	String	RBA: Means the transaction method was decided by RBA rule setting. REQUEST: Means the transaction method was decided by the request specification that the merchant set in the payment request. *** Cherri X transaction risk assessment can evaluate the risk for each transaction to identify and prevent counterfeit transaction. For more information, please contact our sales.**

Frontend Redirect

Frontend Redirect - Request

Request Header
Key: Content-Type
Value: html/text

Request Url
https://{your.domain.com/transaction_is_done}?
rec_trade_id=D20230109WsvKhn&order_number=CF46019917&status=0&bank_transaction_id=TP20230109WsvKhn

Request Query String

Item	Type	Description
rec_trade_id	String(20)	Unique identifier for this transaction generated by TapPay.
order_number	String(50)	A merchant self-defined identifier for each transaction in TapPay.
bank_transaction_id	String(40)	Transaction identifier for the bank. You may customize one here if you wish, but it must be unique, if not, then TapPay will generate a random one. *** We strongly recommend you to define the unique bank_transaction_id by yourself to prevent when a 421 error occurs, the transaction cannot be checked back.**
status	int	Result identifier. 0 indicates success.

Backend Notify

Backend Notify - Request

Request Header
Key: Content-Type
Value: application/json

Request Url
Post
https://{your_backend_notify_url}

Item	Type	Description
rec_trade_id	String(20)	Unique identifier for this transaction generated by TapPay.
auth_code	String(6)	Bank authorization code.
order_number	String(50)	A merchant self-defined identifier for each transaction in TapPay.
bank_transaction_id	String(40)	Transaction identifier for the bank. You may customize one here if you wish, but it must be unique, if not, then TapPay will generate a random one. *** We strongly recommend you to define the unique bank_transaction_id by yourself to prevent when a 421 error occurs, the transaction cannot be checked back.**

Item	Type	Description
amount	int	Transaction price. TapPay currently only supports Taiwan Dollar, Japanese Yen, Hong Kong Dollar, Malaysian Ringgit, and US Dollar. Except TWD and JPY, transaction price should times 100. For instance, if transaction price is HKD1, please fill in 100 in this parameter. TWD：Lower limit of each transaction is NTD 1, upper limit of each transaction is NTD 20,000,000. Please fill in 1 when the transaction is TWD 1. JPY：Lower limit of each transaction is JPY 1, upper limit of each transaction is JPY 1,300,000. Please fill in 1 when the transaction is JPY 1. HKD：Lower limit of each transaction is HKD 0.01, upper limit of each transaction is HKD 252,500. Please fill in 101 when the transaction is HKD 1.01 MYR：Lower limit of each transaction is MYR 0.01, upper limit of each transaction is MYR 135,000. Please fill in 101 when the transaction is MYR 1.01 USD: Lower limit of each transaction is USD 0.01, upper limit of each transaction is USD 33,169. Please fill in 101 when the transaction is USD 1.01
status	int	Result identifier. 0 indicates success.
msg	String	Result message.
transaction_time_millis	long	Time when the bank handles the transaction.
acquirer	String	Acquiring banks or payment processors.
card_identifier	String	Card identifier. Each credit card will only have one card identifier.
bank_result_code	String(40)	Response code from the bank.
bank_result_msg	String(300)	Response message from the bank.
merchant_reference_info	JSONObject	Merchant reference information
merchant_reference_info.affiliate_codes	Array	This parameter will be returned when the merchant uses the feature of Affiliate Code in TapPay Portal and the transaction match the setting.

Refund API

Refund - Request

Post
Sandbox：https://sandbox.tappaysdk.com/tpc/transaction/refund
Production：https://prod.tappaysdk.com/tpc/transaction/refund

Header
Content-Type：application/json
x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
rec_trade_id	Y	String(20)	Identifier for the transaction being refunded. Unique identifier for a transaction generated by TapPay.
bank_refund_id	N	String(20)	Self-defined refund record identifier. (Format : Half-shaped English number) Must be unique.
amount	N	int	Only required for partial refund. The amount must include two decimal places(except "TWD" & "JPY"). For example, "100" represents "$1.00"
additional_data	N	String(3000)	Data will be encrypted and decrypted when other customization requirements.

Refund - Response

參數名	型態	說明
status	int	Result identifier. 0 indicates success.
msg	String	Result message.
refund_id	String	Refund action identifier generated by TapPay.
refund_amont	int	Amount being refunded. Except TWD & JPY, transaction price should times 100. For instance, if transaction price is HKD1, will return 100.
is_captured	Boolean	Whether the transaction has been captured or not.
bank_result_code	String(40)	Response code from the bank.
bank_result_msg	String(300)	Response message from the bank.
currency	String(3)	The letter abbreviation for currency, following ISO 4217.

Record API

Record- Request

Post
Production：https://sandbox.tappaysdk.com/tpc/transaction/query
Sandbox：https://prod.tappaysdk.com/tpc/transaction/query

Header
Content-Type：application/json
x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
records_per_page	N	int	Number of records on each page, up to 200. Default value is 50.
page	N	int	The returned page. Default value is 0.
filters	Y	JSONObject	Restrictions on the trade records. The following filters are possible:
filters.time	N	JSONObject	Time frame should be 90 days or less. * **If rec_trade_id has been put in filter, time is optional**
time.start_time	Y	long	Start time measured in milliseconds
time.end_time	Y	long	End time measured in milliseconds
filters.amount	N	JSONObject	A filter that allows you to obtain trade records within a specific price range. Foreign currency amount include two decimal places (e.g 100 representative 1.00). There are two parameters:
amount.upper_limit	Y	int	Upper bound for the price
amount.lower_limit	Y	int	Lower bound for the price
filters.cardholder	N	JSONObject	A filter that allows you to obtain trade records within a specific card holder. There are three parameters:
cardholder.name	N	String	Name
cardholder.phone_number	N	String	Cellphone number
cardholder.email	N	String	E-mail address
filters.merchant_id	N	Array	A filter that allows you to obtain trade records with specific merchant ID. You may search with multiple merchant IDs at once by putting them in an array.

Item	Required	Type	Description
filters.record_status	N	String	-1 ERROR 0 AUTH 1 OK 2 PARTIALREFUNDED 3 REFUNDED 4 PENDING 5 CANCEL
filters.rec_trade_id	N	String	A unique identifier for each transaction generated by TapPay server. You would need this identifier when you attempt to refund a particular transaction. It is returned by our server after calling a successful payment API. * **If rec_trade_id has been put in filter, time is optional**
filters.order_number	N	String	A merchant self-defined identifier for each transaction in TapPay.
filters.bank_transaction_id	N	String	Transaction identifier for the bank.
filters.auth_code	N	String	Bank authorization code.
filters.currency	N	String	The letter abbreviation for currency, following ISO 4217.
filters.tsp	N	Boolean	Only search for transaction which method is TSP. Default is false.
filters.card_identifier	N	String	Card identifier. Each credit card will only have one card identifier.
order_by	N	JSONObject	Criteria for ordering
order_by.attribute	N	String	time: Sort by the transaction amount : Sort by the transaction
order_by.is_descending	N	Boolean	Is descending sort needed Default value is true.

Record- Response

Item	Type	Description
status	int	API response code. 2 indicates end of the list, meaning there are no more records to be shown under the given filter.
msg	String	API response message.
records_per_page	int	Number of records on each page, up to 200.
page	int	The returned page.
total_page_count	int	Total number of pages.
number_of_transactions	long	Total number of transactions.

Item	Type	Description
trade_records	JSONArray	Trade records. Each transaction record is a JSONObject.
trade_records.rec_trade_id	String(20)	Unique identifier for this transaction generated by TapPay.
trade_records.auth_code	String(6)	Bank authorization code.
trade_records.merchant_id	String(50)	Involved merchant's identifier as defined on Portal.
trade_records.merchant_name	String(50)	Name of the merchant. Default value is empty.
trade_records.app_name	String	Name of the website / application
trade_records.time	long	Time of the record in milliseconds.
trade_records.amount	int	Price of the record. It will change if the transaction was refunded.
trade_records.refunded_amount	int	Refunded price of the record.
trade_records.record_status	int	-1 ERROR 0 AUTH 1 OK 2 PARTIALREFUNDED 3 REFUNDED 4 PENDING 5 CANCEL
trade_records.bank_transaction_id	String(40)	Transaction identifier for the bank. You may customize one here if you wish, but it must be unique, if not, then TapPay will generate a random one. *** We strongly recommend you to define the unique bank_transaction_id by yourself to prevent when a 421 error occurs, the transaction cannot be checked back.**
trade_records.cap_millis	long	Time when the transaction payment will be captured.
trade_records.original_amount	int	Original price of the record.
trade_records.bank_transaction_start_millis	long	Time when the bank begins processing the transaction.
trade_records.bank_transaction_end_millis	long	Time when the bank finishes processing the transaction.
trade_records.is_captured	Boolean	Whether this record is captured or not.
trade_records.bank_result_code	String(40)	Response code from the bank.
trade_records.bank_result_msg	String(300)	Response message from the bank.
trade_records.partial_card_number	String	First six digits of the card and last four digits of the card.

Item	Type	Description
trade_records.payment_method	String	Payment Method direct_pay Direct Pay apple_pay Apple Pay google_pay_token Google Pay Token Card google_pay_fpan Google Pay Real PAN tsp_token TSP Token
trade_records.details	String	List of product/service purchased in the transaction.
trade_records.cardholder	JSONObject	The card owner information
cardholder.name	String(40)	Name
cardholder.phone_number	String(40)	Cellphone number *** It is recommended to fill in the same number that the cardholder apply the credit card in the issuing bank.**
cardholder.email	String(40)	E-mail address
cardholder.zip_code	String(40)	Zip code number *** Mandatory when acquirer equals JP_TAPPAY**
cardholder.address	String(90)	Billing address *** Mandatory when acquirer equals JP_TAPPAY**
cardholder.national_id	String(40)	National ID *** Mandatory when acquirer equals JP_TAPPAY**
cardholder.member_id	String(64)	Member ID customized by merchant *** Only available in Direct Pay**
merchant_reference_info	JSONObject	Merchant reference information
merchant_reference_info.affiliate _codes	Array	This parameter will be returned when the merchant uses the feature of Affiliate Code in TapPay Portal and the transaction match the setting.
three_domain_secure	Boolean	Is it a 3D secure transaction
pay_by_instalment	Boolean	Is it an instalment transaction
order_number	String	A merchant self-defined identifier for each transaction in TapPay.
pay_by_redeem	Boolean	Is it a redeem transaction
card_identifier	String	Card identifier. Each credit card will only have one card identifier.
card_info	JSONObject	Credit card information
card_info.bin_code	String(6)	First six digits of the card
card_info.last_four	String(4)	Last four digits of the card
card_info.issuer	String	Card issuer
card_info.issuer_zh_tw	String	Issuer Chinese name *** If the issuing bank is not in Taiwan, this value will be an empty**

Item	Type	Description
card_info.bank_id	String	Bank identifier *** If the issuing bank is not in Taiwan, this value will be an empty**
card_info.funding	int	Card usage -1 = Unknown 0 = Credit Card 1 = Debit Card 2 = Prepaid Card
card_info.type	int	Card type -1 = Unknown 1 = VISA 2 = MasterCard 3 = JCB 5 = AMEX
card_info.level	String	Card level
card_info.country	String	Country of card issuer
card_info.country_code	String	Country code of card issuer
card_info.expiry_date	String	Card expired date, Format : YYYYMM When request param of remember equals true will return. *** Only available in Direct Pay**
is_rba_verified	Boolean	It is used to judge whether the transaction has passed the Cherri X transaction risk assessment. *** Cherri X transaction risk assessment can evaluate the risk for each transaction to identify and prevent counterfeit transaction. For more information, please contact our sales.**
transaction_method_details	JSONObject	Transaction method details.
transaction_method_details.transaction_method	String	THREE_DOMAIN_SECURE: Means the transaction was sent to the bank with 3D secure. FRICTIONLESS: Means the transaction was sent to the bank with frictionless.
transaction_method_details.transaction_method_reference	String	RBA: Means the transaction method was decided by RBA rule setting. REQUEST: Means the transaction method was decided by the request specification that the merchant set in the payment request. *** Cherri X transaction risk assessment can evaluate the risk for each transaction to identify and prevent counterfeit transaction. For more information, please contact our sales.**

Cap Today API

Cap Today - Request

Post

Sandbox：https://sandbox.tappaysdk.com/tpc/transaction/cap

Production：https://prod.tappaysdk.com/tpc/transaction/cap

Header

Content-Type：application/json

x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
rec_trade_id	Y	String(20)	Unique identifier for this transaction generated by TapPay.

Cap Today - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.
cap_millis	long	Time when the transaction payment will be captured.
currency	String(3)	The letter abbreviation for currency, following ISO 4217.

Cap Cancel API

Cap Cancel - Request

Post
Sandbox：https://sandbox.tappaysdk.com/tpc/transaction/cap/cancel
Production：https://prod.tappaysdk.com/tpc/transaction/cap/cancel

Header
Content-Type：application/json
x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
rec_trade_id	Y	String(20)	Unique identifier for this transaction generated by TapPay.

Cap Cancel - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.
currency	String(3)	The letter abbreviation for currency, following ISO 4217.
rec_trade_id	String(20)	Unique identifier for this transaction generated by TapPay.

Remove Card API

Remove Card - Request

Post
Sandbox：https://sandbox.tappaysdk.com/tpc/card/remove

Production：https://prod.tappaysdk.com/tpc/card/remove

Header
Content-Type：application/json

x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
card_key	Y	String(64)	A security key used to encrypt the card token.
card_token	Y	String(67)	A permanent token that represents the customer's card.

Remove Card - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.

Trade History API

Trade History - Request

Post
Sandbox：https://sandbox.tappaysdk.com/tpc/transaction/trade-history
Production：https://prod.tappaysdk.com/tpc/transaction/trade-history

Header
Content-Type：application/json
x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
rec_trade_id	Y	String(20)	Unique identifier for this transaction generated by TapPay.

Trade History - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.
rec_trade_id	String(20)	Unique identifier for this transaction generated by TapPay.
currency	String(3)	The letter abbreviation for currency, following ISO 4217.
trade_history	JSONArray	Transaction history. Each action history would be a JSONObject.
trade_history.amount	int	Transaction price.
trade_history.action	int	Transaction status. 0 Authorize 1 Capture 3 Refund 4 Pending 5 Cancel 6 Refund Cancel
trade_history.millis	long	Trigger action time
trade_history.success	Boolean	Whether the action status is successful
trade_history.bank_transaction_millis	long	The practical time that TapPay send the transaction to bank to process authorization, capturing, refund and canceling refund the payment.
trade_history.can_refund_cancel_millis	long	Return this parameter when action equals 3 to indicate when can cancel the refund

Item	Type	Description
trade_history.refund_id	String	Return this parameter when action equals 3 or 6. Refund action identifier generated by TapPay.
trade_history.bank_refund_id	String(20)	Self-defined refund record identifier. (Format : Half-shaped English number) Must be unique.
trade_history.is_pending	Boolean	It will be true when the transaction is not refunded completed. In contrast, it will be false when the refund is done.
trade_history.bank_result_code	String(40)	Response code from the bank. We will reply the actual bank result code in the authorization and payment capture history. As for refund, we will show the bank result code of each refund transaction.
trade_history.bank_result_msg	String(300)	Response message from the bank. We will reply the actual bank result message in the authorization and payment capture history. As for refund, we will show the bank result message of each refund transaction.

Card Metadata API

Card Metadata - Request

Post
Sandbox：https://sandbox.tappaysdk.com/tpc/card/metadata
Production：https://prod.tappaysdk.com/tpc/card/metadata

Header
Content-Type：application/json
x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
card_key	Y	String(64)	A security key used to encrypt the card token.
card_token	Y	String(67)	A permanent token that represents the customer's card.

Card Metadata - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success. *** It will be returned 2011 (Card not found. Invalid token) when the card_key or card_token does not exist or be deleted.**
msg	String	Result message. *** It will be returned 2011 (Card not found. Invalid token) when the card_key or card_token does not exist or be deleted.**
card_info	JSONObject	Credit card information
card_info.bin_code	String(6)	First six digits of the card
card_info.last_four	String(4)	Last four digits of the card
card_info.issuer	String	Card issuer
card_info.issuer_zh_tw	String	Issuer chinese name *** If the issuing bank is not in Taiwan, this value will be an empty**
card_info.bank_id	String	Bank identifier *** If the issuing bank is not in Taiwan, this value will be an empty**

Item	Type	Description
card_info.funding	int	Card usage -1 = Unknown 0 = Credit Card 1 = Debit Card 2 = Prepaid Card
card_info.type	int	Card type -1 = Unknown 1 = VISA 2 = MasterCard 3 = JCB 5 = AMEX
card_info.level	String	Card level
card_info.country	String	Country of card issuer
card_info.country_code	String	Country code of card issuer
card_info.expiry_date	String	Card expired date, Format : YYYYMM When request param of remember equals true will return. *** Only available in Direct Pay**
card_info.token_status	String	Token Status: NOT_SUPPORT REQUEST_PROCESSING ACTIVE SUSPENDED DELETED
card_art_info	JSONObject	Card face infomation
card_art_info.card_art_status	String	NOT_SUPPORT REQUEST_PROCESSING SUPPORT
card_art_info.is_real_card_face	Boolean	Determine it is a real card face or not. A fake card face will be returned when: 1. The card type is not supported. Such as JCB & AE. 2. The card type is Visa or MasterCard, but the issuing bank does not support it. 3. The card type is Visa or MasterCard, but the issuing bank does not provide real card faces to the International Credit Card Networks. (Rarely happened)
card_art_info.image	JSONObject	image
image.url	String	Image Url, start with "https://"
image.width	int	Card face width, unit : px
image.height	int	Card face height, unit : px
card_art_info.foreground_color	String	Card face text color
card_art_info.masked_card_number	String	Masked Credit card last four digits (e.g. : **** **** **** **** 1234)

Item	Type	Description
card_art_info.issuer	String	The card issuing bank displayed on the card face (If Is_real_card_face is false, you can display issuer on the card face.)

Card Notify API

After enable TSP service, you will be informed the updated card information by this API every hour, which the card type has been changed (include Visa and MasterCard) during last hour.

* User provide tsp_notify_url to TapPay, set the URL for the TSP card update notification.

Card Notify - Request

Request Header
Key: Content-Type
Value: application/json

Request Url
Post
https://{your_tsp_notify_url}

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.
card_token	Array	All the card tokens which are saved in TapPay server and related to the same credit card. (card token could be got from Pay by Prime API, remember: true or Bind Card API.)
card_info	JSONObject	Credit card information
card_info.bin_code	String(6)	First six digits of the card
card_info.last_four	String(4)	Last four digits of the card
card_info.issuer	String	Card issuer
card_info.issuer_zh_tw	String	Issuer Chinese name *** If the issuing bank is not in Taiwan, this value will be an empty**
card_info.bank_id	String	Bank identifier *** If the issuing bank is not in Taiwan, this value will be an empty**
card_info.funding	int	Card usage -1 = Unknown 0 = Credit Card 1 = Debit Card 2 = Prepaid Card

Item	Type	Description
card_info.type	int	Card type -1 = Unknown 1 = VISA 2 = MasterCard 3 = JCB 5 = AMEX
card_info.level	String	Card level
card_info.country	String	Country of card issuer
card_info.country_code	String	Country code of card issuer
card_info.expiry_date	String	Card expired date, Format : YYYYMM When request param of remember equals true will return. *** Only available in Direct Pay**
card_info.token_status	String	Token Status: ACTIVE SUSPENDED DELETED
card_art_info	JSONObject	Card face infomation
card_art_info.card_art_status	String	NOT_SUPPORT SUPPORT
card_art_info.is_real_card_face	Boolean	Determine it is a real card face or not. A fake card face will be returned when: 1. The card type is not supported. Such as JCB & AE. 2. The card type is Visa or MasterCard, but the issuing bank does not support it. 3. The card type is Visa or MasterCard, but the issuing bank does not provide real card faces to the International Credit Card Networks. (Rarely happened)
card_art_info.image	JSONObject	image
image.url	String	Image Url, start with "https://"
image.width	int	Card face width, unit : px
image.height	int	Card face height, unit : px
card_art_info.foreground_color	String	Card face text color
card_art_info.masked_card_number	String	Masked Credit card last four digits (e.g. : **** **** **** **** 1234)
card_art_info.issuer	String	The card issuing bank displayed on the card face (If Is_real_card_face is false, you can display issuer on the card face.)

Card Notify API Sandbox

After enable TSP service, you will be informed by Card Notify API through tsp_notify_url you set. (Please refer to Card Notify API for conditions)
The purpose of this API is to make sure you can get the notification correctly.

* Only Available in Sandbox

Card Notify Sandbox - Request

Post
Sandbox：https://sandbox.tappaysdk.com/tpc/sandbox/card/metadata/notify

Header
Content-Type：application/json

x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
card_key	Y	String(64)	Card authorization key. This column is gotten from Pay by Prime or Bind Card API. Please use test card : 4242424181784242
card_token	Y	String(67)	Card token. This column is gotten from Pay by Prime or Bind Card API. Please use test card : 4242424181784242
tsp_notify_url	Y	String(500)	Request to url when card status change.

Card Notify Sandbox - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.

Get Member Card API

Get Member Card - Request

Post
Sandbox：https://sandbox.tappaysdk.com/tpc/direct-pay/get-member-card
Production：https://prod.tappaysdk.com/tpc/direct-pay/get-member-card

Header
Content-Type：application/json
x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
member_id	Y	String(64)	Member ID customized by merchant. Use it when use pay by prime with remember true or bind card) *** Only available in Direct Pay**

Get Member Card - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.
member_id	String(64)	Member ID customized by merchant. Use it when use pay by prime with remember true or bind card) *** Only available in Direct Pay**
cards	JSONArray	Binding cards. Each card is a JSONObject.
cards.card_token	String(67)	A permanent token that represents the customer's card
cards.bin_code	String(6)	First six digits of the card
cards.last_four	String(4)	Last four digits of the card
cards.issuer	String	Card issuer
cards.issuer_zh_tw	String	Issuer Chinese name *** If the issuing bank is not in Taiwan, this value will be an empty**
cards.bank_id	String	Bank identifier *** If the issuing bank is not in Taiwan, this value will be an empty**

Item	Type	Description
cards.funding	int	Card usage -1 = Unknown 0 = Credit Card 1 = Debit Card 2 = Prepaid Card
cards.type	int	Card type -1 = Unknown 1 = VISA 2 = MasterCard 3 = JCB 5 = AMEX
cards.level	String	Card level
cards.country	String	Country of card issuer
cards.country_code	String	Country code of card issuer
cards.card_identifier	String	Card identifier. Each credit card will only have one card identifier.
cards.expiry_date	String	Card expired date, Format : YYYYMM When request param of remember equals true will return. *** Only available in Direct Pay**

Update Cardholder API

Update Cardholder - Request

Post
Sandbox：https://sandbox.tappaysdk.com/tpc/card/update-cardholder
Production：https://prod.tappaysdk.com/tpc/card/update-cardholder

Header
Content-Type：application/json
x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
card_token	Y	String(67)	A permanent token that represents the customer's card
name	N	String(40)	Name
phone_number	N	String(40)	Cellphone number
email	N	String(40)	E-mail address
zip_code	N	String(40)	Zip code number
address	N	String(90)	Billing address
national_id	N	String(40)	National ID
member_id	N	String(64)	Member ID customized by merchant
country_code	N	String(2)	Country Code (ISO 3166-1 Alphabetical Code)
city	N	String(500)	City

Update Cardholder - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.
card_token	String(67)	A permanent token that represents the customer's card.
update_millis	long	Update time
cardholder	JSONObject	Latest information of the cardholder

Item	Type	Description
cardholder.name	String(40)	Name
cardholder.phone_number	String(40)	Cellphone number
cardholder.email	String(40)	E-mail address
cardholder.zip_code	String(40)	Zip code number
cardholder.address	String(90)	Billing address
cardholder.national_id	String(40)	National ID
cardholder.member_id	String(64)	Member ID customized by merchant
cardholder.country_code	String(2)	Country Code (ISO 3166-1 Alphabetical Code)
cardholder.city	String(500)	City

Check Affiliate Code API

Check Affiliate Code - Request

Post
Sandbox：https://sandbox.tappaysdk.com/tpc/affiliate-code/check
Production：https://prod.tappaysdk.com/tpc/affiliate-code/check

Header
Content-Type：application/json
x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
affiliate_code_group_name	N	String(50)	Affiliate code group
affiliate_code_name	Y	String(20)	Affiliate code
card_token	N	String(67)	Card token Must be used with card_key, but cannot be used with prime at the same time.
card_key	N	String(64)	Card key Must be used with card_token, but cannot be used with prime at the same time.
prime	N	String(67)	The one time token returned from getPrime. Cannot be used with card_token /card_key at the same time.

Check Affiliate Code - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.
result_code	int	Whether it meets the query conditions. 0 indicates success. 1 indicates fail.

Push Token API

Only available in Production

Push Token - Request

Post
Production：https://prod.tappaysdk.com/tpc/tsp/token/push-tokenize

Header
Content-Type：application/json

x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
tsp_push_token	Y	String(1000)	When opening the app, we will send the value of tspPushToken to the app.

Push Token - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.
token_status	String	Token Status: ACTIVE
card_secret	JSONObject	Contains the card key and token. *** Only available in Direct Pay**
card_secret.card_token	String(67)	A permanent token that represents the customer's card. You may use the card token to pay by using Pay by Card Token API.
card_secret.card_key	String(64)	A security key used to encrypt the card token，You may use the card token to pay by using Pay by Card Token API.
card_info	JSONObject	Credit card information
card_info.bin_code	String(6)	First six digits of the card
card_info.last_four	String(4)	Last four digits of the card
card_info.issuer	String	Card issuer
card_info.issuer_zh_tw	String	Issuer Chinese name *** If the issuing bank is not in Taiwan, this value will be an empty**

Item	Type	Description
card_info.bank_id	String	Bank identifier *** If the issuing bank is not in Taiwan, this value will be an empty**
card_info.funding	int	Card usage -1 = Unknown 0 = Credit Card 1 = Debit Card 2 = Prepaid Card
card_info.type	int	Card type -1 = Unknown 1 = VISA 2 = MasterCard 3 = JCB 5 = AMEX
card_info.level	String	Card level
card_info.country	String	Country of card issuer
card_info.country_code	String	Country code of card issuer
card_info.expiry_date	String	Card expired date, Format : YYYYMM When request param of remember equals true will return. *** Only available in Direct Pay**
cardholder	JSONObject	The card owner information
cardholder.name	String(40)	Name
cardholder.phone_number	String(40)	Cellphone number *** It is recommended to fill in the same number that the cardholder apply the credit card in the issuing bank.**
cardholder.email	String(40)	E-mail address
cardholder.zip_code	String(40)	Zip code number *** Mandatory when acquirer equals JP_TAPPAY**
cardholder.address	String(90)	Billing address *** Mandatory when acquirer equals JP_TAPPAY**
card_network_status	String(100)	Error status from International Credit Card Organization.
card_network_msg	String(100)	Error message from International Credit Card Organization.
callback_url	String(400)	Back to the bank url. (optional)

Reconciliation API

Reconciliation - Request

Post
Sandbox：https://sandbox.tappaysdk.com/tpc/transaction/reconciliation
Production：https://prod.tappaysdk.com/tpc/transaction/reconciliation

Header
Content-Type：application/json
x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
records_per_page	N	int	Number of records on each page, up to 200. Default value is 50.
page	N	int	The returned page. Default value is 0.
start_time_millis	Y	long	The real capturing and refunding start-time with bank which is measured in milliseconds.
end_time_millis	Y	long	The real capturing and refunding end-time with bank which is measured in milliseconds.
transaction_actions	Y	StringArray	Transaction Action Capturing: CAPTURE Refund: REFUND
merchant_ids	N	StringArray	Involved merchant's identifier as defined on Portal. This parameter allows multiple merchant id. *** You can only choose merchant id or acquirer to put in the request body.**
acquirers	N	StringArray	This parameter allows multiple acquirers. *** You can only choose merchant id or acquirer to put in the request body.**

Reconciliation - Response

Item	Type	Description
status	int	API response code. 2 indicates end of the list, meaning there are no more records to be shown under the given filter.
msg	String	API response message.
records_per_page	int	Number of records on each page, up to 200.
page	int	The returned page.

Item	Type	Description
total_page_count	int	Total number of pages.
number_of_transactions	long	Total number of transactions.
reconciliation_datas	JSONArray	Capturing and refunding details of each transaction.
merchant_id	String	Involved merchant's identifier as defined on Portal.
merchant_description	String	TapPay merchant reference in Merchant of TapPay Portal.
acquirer	String	Acquirer
payment_method	String	Payment Method direct_pay Direct Pay apple_pay Apple Pay google_pay_token Google Pay Token Card google_pay_fpan Google Pay Real PAN tsp_token TSP Token
rec_trade_id	String	Unique identifier for this transaction generated by TapPay.
bank_transaction_id	String	Transaction identifier for the bank.
order_number	String	A merchant self-defined identifier for each transaction in TapPay.
millis	long	Trigger status time
bank_transaction_millis	long	The practical time that TapPay send the transaction to bank to process authorization, capturing, refund and canceling refund the payment.
transaction_action	String	Transaction Action Capturing: CAPTURE Refund: REFUND
transaction_result	Boolean	Whether the status is successful.
trade_amount	int	The amount of capturing and refunding.
auth_millis	long	The time that merchant call TapPay API for authorization.
auth_amount	int	Amount while authorization.
currency	String	The letter abbreviation for currency, following ISO 4217.
partial_card_number	String	First six digits of the card and last four digits of the card.
card_type	int	Card Type -1 = Unknown 1 = Visa 2 = MasterCard 3 = JCB 5 = AMEX
auth_code	String	Bank authorization code.

Item	Type	Description
is_kyc_verified	Boolean	Whether to do KYC or not. *** Only available in Direct Pay and credit cards issued in Taiwan.**

Create Affiliate Code API

Create Affiliate Code - Request

Post
https://api.tappaysdk.com/partner/affiliate-code/create

Header
Content-Type：application/json

x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
affiliate_code_name	Y	String(20)	A self-defined name for each affiliate code(half-shaped English and number, less than 20 characters).
fpan_bincodes	N	StringArray	FPAN bincode (6~13 digits), which is limited to 50 sets per request.
token_bincodes	N	StringArray	Token bincode (6~13 digits), which is limited to 50 sets per request.
requset_type	Y	String	sandbox means test environment prod means production environment

Create Affiliate Code - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.

Delete Affiliate Code API

Delete Affiliate Code - Request

Post
https://api.tappaysdk.com/partner/affiliate-code/delete

Header
Content-Type：application/json

x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
affiliate_code_name	Y	String(20)	A self-defined name for each affiliate code(half-shaped English and number, less than 20 characters).
fpan_bincodes	N	StringArray	FPAN bincode (6~13 digits), which is limited to 50 sets per request.
token_bincodes	N	StringArray	Token bincode (6~13 digits), which is limited to 50 sets per request.
requset_type	Y	String	sandbox means test environment prod means production environment

Delete Affiliate Code - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.

Create Affiliate Code Group API

Create Affiliate Code Group - Request

Post
https://api.tappaysdk.com/partner/affiliate-code/group/create

Header
Content-Type：application/json

x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
affiliate_code_group_name	Y	String(50)	A self-defined name for each affiliate code group (half-shaped English and number, less than 50 characters).
affiliate_code_names	Y	StringArray	Affiliate Code, which is limited to 50 sets per request.
requset_type	Y	String	sandbox means test environment prod means production environment

Create Affiliate Code Group - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.

Delete Affiliate Code Group API

Delete Affiliate Code Group - Request

Post
https://api.tappaysdk.com/partner/affiliate-code/group/delete

Header
Content-Type：application/json

x-api-key：Your TapPay partner key

Item	Required	Type	Description
partner_key	Y	String(64)	Authentication key for each individual partner.
affiliate_code_group_name	Y	String(50)	A self-defined name for each affiliate code group (half-shaped English and number, less than 50 characters).
affiliate_code_names	Y	StringArray	Affiliate Code, which is limited to 50 sets per request.
requset_type	Y	String	sandbox means test environment prod means production environment

Delete Affiliate Code Group - Response

Item	Type	Description
status	int	Result identifier. 0 indicates success.
msg	String	Result message.

Backend API Error Code

status	msg
0	Success
2	End of list
4	IP mismatch
5	Wrong JSON format
-	-
41	Wrong card format
43	Card unauthorized access
-	-
61	Merchant not found or removed
66	Not a line pay merchant
67	This merchant does not support this payment method
68	This merchant does not support refund cancel
70	TapPay doesn't support cardholder verify function (KYC) of this bank
71	This merchant does not support instalment
72	This merchant only support instalment
74	This merchant does not support 3DS2.0
75	This merchant does not support non-3D secure
-	-
80	Invaild x-api-key or app key
81	Partner not found
84	Partner unauthorized
89	This merchant does not support this currency
-	-
91	Expired prime
92	The acquirer doesn't support void auth date is different from the auth date. Error handling: The Acquiring Bank only supports execute voiding authorization on the same day as authorization. Please execute refund after capping
-	-
121	Invalid arguments : prime

status	msg
122	Card encrypt error
-	-
126	Barcode not found
127	Barcode is expired
128	Barcode has been use
129	Member not found
130	Merchant group not found
131	Merchant group setting error
132	On-us merchant not found
141	This partner does not support amount pending
-	-
421	Gateway Timeout
422	Authorization Timeout
-	-
501	Missing arguments : cardholder
502	Missing arguments : merchant_id
503	Missing arguments : prime
504	Missing arguments : currency
505	Missing arguments : details
506	Missing arguments : partner_key
507	Missing arguments : cardholder > phone_number
508	Missing arguments : cardholder > name
509	Missing arguments : cardholder > email
510	Invalid arguments : amount
511	Invalid arguments : instalment
512	Invalid arguments : delay_capture_in_days
513	Out of range : instalment
514	Out of range : delay_capture_in_days
515	Out of range : details
516	Out of range : currency
517	Out of range : order_number

status	msg
518	Out of range : bank_transaction_id
519	Out of range : cardholder > phone_number
520	Out of range : cardholder > name
521	Out of range : cardholder > email
522	Out of range : cardholder > addr
523	Out of range : cardholder > zip
524	Out of range : cardholder > national_id
525	Out of range : cardholder > member_id
526	Missing arguments : card_key
527	Missing arguments : card_token
528	Out of range : card_key
529	Out of range : card_token
-	-
535	Invalid arguments : records_per_page
536	Invalid arguments : page
537	Invalid arguments : filters > time > start_time
538	Invalid arguments : filters > time > end_time
539	Invalid arguments : filters > rec_trade_id
545	Invalid arguments : filters > amount > upper_limit
546	Invalid arguments : filters > amount > lower_limit
547	Invalid arguments : filters > app_id
548	Invalid arguments : filters > merchant_id
549	Invalid arguments : filters > record_status
550	Invalid arguments : order_by > attribute
551	Invalid arguments : order_by > is_descending
559	Out of range : records_per_page
560	Out of range : page
561	Out of range : filters > time > start_time
562	Out of range : filters > time > end_time
563	filters > time > start_time can't be later than the end_time
564	Out of range : filters > amount > upper_limit

status	msg
565	Out of range : filters > amount > lower_limit
566	filters > amount > lower_limit can't be larger than the upper_limit
567	Out of range : filters > app_id
568	Out of range : order_number
569	Out of range : bank_transaction_id
574	Out of range : card_ccv
578	Out of range : additional_data
587	Out of range : partner_key
588	Invalid arguments : delay_capture_in_days
589	Invalid arguments : platform_type
590	Missing arguments : android_merchant_id
591	Missing arguments : pay_token_data
592	Missing arguments : apple_merchant_id
593	Out of range : merchant_id
594	Out of range : apple_merchant_id
595	Out of range : delay_capture_in_days
596	Missing arguments : rec_trade_id
597	Out of range : rec_trade_id
617	Out of range : fraud_id
622	Missing arguments : member_id
627	Invalid arguments : result_url > backend_notify_url
628	Invalid arguments : result_url > frontend_redirect_url
629	Missing arguments : result_url > backend_notify_url
630	Missing arguments : result_url > frontend_redirect_url
631	Missing arguments : result_url
632	Acquirer doesn't support 3D Secure.
633	3D Secure get redirect url error
635	Acquirer doesn't support instalment
636	Acquirer doesn't support redeem
637	Acquirer doesn't support instalment and redeem concurrently
643	Invalid arguments : additional_data

status	msg
644	Invalid arguments : line_pay_product_image_url
669	Out of range : request_id
670	Out of range : refund_id
691	Acquirer doesn't Support Non-3D Secure.
-	-
693	Missing Arguments : barcode
694	Out of range: barcode
695	Out of range: barcode_length
696	Out of range: barcode_update_secs
697	Invalid arguments : barcode_length
698	Invalid arguments : barcode_update_sec
699	Invalid argument : barcode
700	Invalid argument : retry_mode
701	Doesn't support merchant_id and merchant_group_id concurrently
706	Out of range : bank_refund_id
708	Invalid arguments : bank_refund_id
713	Partner doesn't support sub_merchant
804	Invalid arguments : no_rebate_amount
-	-
810	Invalid arguments : payment_method
811	Out of range : branch_code
812	Out of range : branch_name
813	Out of range : pos_id
-	-
814	Missing arguments : easy_wallet_secure_code
815	Invalid arguments : easy_wallet_secure_code
816	Missing arguments : easy_wallet_contract_no
817	Invalid arguments : easy_wallet_contract_no
822	Search time period can not be more than 90 days
823	Missing arguments : easy_wallet_ftps_account
824	Invalid arguments : easy_wallet_ftps_account

status	msg
825	Missing arguments : easy_wallet_ftps_password
826	Invalid arguments : easy_wallet_ftps_password
827	Ftps connection failed due to wrong easy_wallet_ftps_account or easy_wallet_ftps_password
828	Easy Wallet upload path not found
829	Easy Wallet download path not found
835	easy_wallet_ftps_account mismatch with existed merchant
836	easy_wallet_ftps_password mismatch with existed merchant
837	fubon_sftp_account mismatch with existed merchant
838	fubon_sftp_password mismatch with existed merchant
839	fubon_sftp_upload_path mismatch with existed merchant
840	fubon_sftp_download_path mismatch with existed merchant
843	Invalid arguments > product_image_url
844	Out of range : product_image_url
845	Out of range : event_code
846	Invalid arguments : merchant_unversal_links
856	Does not support merchant_ids and acquirers concurrently
857	Missing arguments : transaction_actions
858	Invalid arguments : transaction_actions
860	Missing arguments : emails
861	Invalid arguments : merchant_ids
862	Out of range : kyc_verification_merchant_id
863	national_id must be verified in identity verification (KYC)
864	kyc_verification_merchant_id is only allowed for identity verification (KYC)
865	Missing arguments : nccc_terminal_id
866	Bank not support identity verification (KYC)
867	Out of range : description
868	You have to update at least one cardholder information
889	Out of range : payment_number
890	Out of range : nccc_terminal_id
891	Cardholder not found

status	msg
892	Out of range : phone_number
893	Out or range : name
894	Out of range : email
895	Out of range : address
896	Out of range : zip
897	Out of range : national_id
898	Out of range : member_id
899	Invalid arguments : acquirers
947	EasyWallet transaction not found
950	EasyWallet get redirect url error
-	-
900	Service suspension due to system upgrade
901	Decrypt payment data error
904	Merchant's acquirer not found
905	Apple Pay transaction not found
906	Apple Pay order id already exist
907	Android Pay transaction not found
908	Android Pay order id already exist
909	Inconsistent amount
910	Inconsistent currency
911	Apple merchant not found
912	Android merchant not found
915	System error, please contact TapPay customer service
916	Signature verification is not proceed
917	Signature verification error
919	PaymentMethodToken expired
920	Message decryption is not proceed
-	-
922	LINE Pay get redirect url error
923	LINE Pay transaction not found
924	LINE Pay order is canceled

status	msg
-	-
925	Three Domain Secure's order is canceled
-	-
926	Acquirer doesn't support this currency
-	-
930	Samsung Pay merchant not found
931	Samsung Pay order id already exist
932	Samsung Pay transaction not found
-	-
934	Incorrect status [Transaction has been Captured, it could not be canceled]
935	Incorrect status [Transaction does not arrange capture, it could not be canceled]
936	Incorrect status [Transaction is capturing, it could not be canceled]
-	-
937	This card does not support this function
939	Request processing
940	Invalid transaction status
941	Transaction arguments mismatch
942	Invalid environment
943	JKOPAY get redirect url error
944	JKOPAY transaction not found
946	Do not support refund during bank capturing
-	-
948	Previous process is still accessing, please try again later
949	Previous request is still accessing, please try again later
-	-
1001	Direct Pay transaction not found
-	-
2011	Card not found, Invalid token
2012	Card key error
2013	Card expired
4002	Invalid arguments : rec_trade_id

status	msg
4014	Repeated refund
-	-
5001	Kyc verification merchant not found
5002	Identity verification (KYC) failed
5003	Identity verification (KYC) exception happened
5004	national_id can't be empty in identity verification (KYC)
5005	phone_number can't be empty if it is in need of identity verification (KYC)
5006	This acquirer not support identity verification (KYC)
5007	Can not recognize card issuer if this acquirer not support off-us card in identity verification (KYC)
5008	This acquirer not support off-us card in identity verification (KYC)
5009	This acquirer not support verify phone number in identity verification (KYC)
-	-
6001	Duplicate bank_transaction_id
6002	Duplicate bank_refund_id
-	-
8001	Partner doesn't support TSP
8002	Missing arguments : tsp_enable
8003	Invalid arguments : tsp_enable
8004	Missing arguments : tsp_token
8005	Missing arguments : token_status
8006	Missing arguments : card_expiry_date
8007	Missing arguments : token_card_expiry_date
8008	Invalid arguments : token_status
8009	Invalid arguments : tsp_token
8010	Invalid arguments : width
8011	Invalid arguments : height
8012	Invalid arguments : tsp_notify_url
8013	Missing arguments : start_millis
8014	Missing arguments : end_millis
8015	Invalid arguments : start_millis

status	msg
8016	Invalid arguments : end_millis
8017	Invalid arguments : end_millis (end_millis is less than start_millis)
8019	Missing arguments : tsp_notify_url
-	-
9003	Out of range : rba_merchant_key
9017	Invalid arguments : challenge_lowest_score
9018	Missing arguments : fpan_bincodes or token_bincodes
9019	Invalid arguments : fpan_bincodes
9020	Invalid arguments : token_bincodes
9021	Missing arguments : affiliate_code_names
9022	Invalid arguments : affiliate_code_names
9023	Missing arguments : affiliate_code_group_name
9024	Invalid arguments : affiliate_code_group_name
9025	Invalid arguments : order_number
9026	Out of range : fpan_bincodes
9027	Out of range : token_bincodes
9028	Missing arguments : affiliate_code_name
9029	Invalid arguments : affiliate_code_name
9030	Out of range : prime
9031	Missing arguments : card_token or prime
9032	Missing arguments : bank_member_id
9037	Doesn't support card_token and prime concurrently
-	-
9051	Missing arguments : jko_pay_insurance_policy
9052	Missing arguments : jko_pay_insurance_policy > proposer
9053	Missing arguments : jko_pay_insurance_policy > insured
9054	Missing arguments : jko_pay_insurance_policy > final_price
9055	Missing arguments : jko_pay_insurance_policy > insurance_type
9056	Missing arguments : jko_pay_insurance_policy > policy_id
9057	Missing arguments : jko_pay_insurance_policy > payment_deadline
9058	Missing arguments : jko_pay_insurance_policy > payment_frequency

status	msg
9059	Out of range : jko_pay_insurance_policy > proposer
9060	Invalid arguments : jko_pay_insurance_policy > final_price
9061	Out of range : jko_pay_insurance_policy > policy_id
9062	Invalid arguments : jko_pay_insurance_policy > payment_frequency
9063	Invalid arguments : jko_pay_insurance_policy > payment_deadline
-	-
9118	Missing arguments : tsp_push_token
9119	Out of range : tsp_push_token
-	-
10001	Transaction pending
10002	IP mismatch
10003	Wrong card, please ask for issuer
10004	Bank timeout
10005	Bank system error
10006	Duplicate transaction
10007	3D validate error
10008	Bank merchant account data error
10009	Amount error
10010	Transaction pending capture, can not refund
10011	Refund error. Please try again.
10012	Data format error
10013	Bank transaction id duplicate
10014	Invalid bank transaction id
10015	Redeem failed
10023	Bank error or TSP error
10024	Authorized transaction cannot be partially refunded
10025	Auth code mismatch error
10026	Bank transaction id mismatch error
10028	Samsung Pay error
10029	CTBC decrypt data error
10030	CTBC decrypt data invalid eci

status	msg
10031	CTBC decrypt data missing errorCode
10032	Card CTBC decrypt data missing xid
10033	CTBC decrypt data missing cardNumber
10034	CTBC decrypt data missing expiry
10035	CTBC decrypt data missing eci
10036	Card number mismatch error
10037	Card expiry date mismatch error
10038	Redeem transaction cannot be partially refunded
10039	This merchant does not support this card type
-	-
10042	Doesn't support this card's country code
10043	This card can't find issuer's country code
-	-
10048	The transaction amount is 0, cannot be refunded
10049	The transaction amount is 0, cannot be captured
-	-
10050	Out of range : amount
10051	Out of range : amount (refund amount must be less than or equal to remained amount)
10052	Confirm order timeout
-	-
10055	Missing arguments : filters > time
10056	Missing arguments : filters
-	-
11000	Invalid arguments : rec_trade_id
-	-
12001	Rba doesn't support transaction with merchant_id
12007	Merchant Group Setting not match rba recommendation
12008	Payment request not match rba recommendation
-	-
13002	This apple pay merchant identifier is disabled

status	msg
-	-
14001	Affiliate code group not found
14002	Affiliate code not found
14003	Duplicate affiliate code
14004	Duplicate fpan bincode
14005	Duplicate token bincode
14006	Create affiliate code failed
14007	Delete affiliate code failed
14008	Update affiliate code failed
14009	Create bincode failed
14010	Delete bincode failed
14011	Fpan bincode exceeding single affiliate code limit
14012	Token bincode exceeding single affiliate code limit
-	-
15001	Easy Wallet not support duplicate bank_member_id binding
15002	Easy Wallet token already canceled binding
-	-
19004	Push-tokenize failed: REQUIRE_ADDITIONAL_AUTHENTICATION
-	-
21001	Terminal Pay transaction not found
21002	Terminal Pay transaction cannot be partially refunded
-	-
9999	System is under maintenance, please contact TapPay customer service