CASHUB TRADEYE WEB API v1.3.0

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CASTLES TECHNOLOGY Co., Ltd.

6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 23143, TAIWAN

COMPANY WEBSITE: HTTPS://WWW.CASTLESTECH.COM/

WARNING

Revision History

Version	Date	Description
V1.0.0	2022.09.06	This version is compatible with CASHUB 2.7.0. In order to use WEB API, CASHUB server should be 2.7.0 or higher.
V1.1.0	2023.02.10	This version is compatible with CASHUB 2.9.0 or higher version. Modify 2.1 Synchronize Transaction Records Modify 2.2 Synchronize Settlement Records
V1.2.0	2023.06.08	This version is compatible with CASHUB 2.16.0 or higher version. Modify 2.1 Synchronize Transaction Records
V1.3.0	2023.08.10	This version is compatible with CASHUB 2.18.0 or higher version. Modify 2.2 Synchronize Settlement Records

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1. Introduction

This document records CASHUB Tradeye WEB API for customer usage. For API detail information, please refer to the following chapter.

2. API Details

This chapter will introduce how to use Tradeye WEB API.

2.1 Synchronize Transaction Records

This API is used to synchronize transaction records

Interface Invocation Request Description

http request method: GET
https://{api_gateway_host}/api/svms/sync/transactions?access_token={ACCESS_TOKEN}&limit={LIMIT}&terminal_sn={TERMINAL_SN}&merchant_id={MERCHANT_ID}&terminal_id={TERMINAL_ID}&start_time={START_TIME}&end_time={END_TIME}&columns={COLUMNS}&start_index={START_INDEX}

Parameter Description

Parameter	Type	Required	Rules	Description
limit	Integer	Yes	min:1, max:1000	Limit the maximum number of data returned at a time
terminal_sn	String	No	max: 32	If the user needs to acquire the data of a single terminal, the user can specify terminal SN or terminal id to acquire the data
merchant_id	String	No	uuid	CASHUB merchant uuid
terminal_id	String	No	uuid	CASHUB terminal uuid
start_time	String	Yes	format: 2006-01-02 15:04:05	within 1 month time >= start_time
end_time	String	Yes	format: 2006-01-02 15:04:05	time < end_time

columns	String	No		Columns to return, please use comma to separate different column. The default setting is to return all columns. For specific columns, please refer to **transaction return parameter description** (index, terminal_sn, date_time will be returned every time, no special control is required)
start_index	Integer	No		The starting data index (excluding itself), is used to obtain records in batches. If the user doesn't know the maximum record index that has already acquired, the user can start from 0, but it may cause the data to be acquired repeatedly, the user must do data anti-repeat processing.

Normal Return Description

Normally, the interface responds to the following JSON packets:


```
{
    "status": 0,
    "data": {
        "is_last": true,
        "row_count": 1,
        "transactions": [
            {
                "index": 155008866,
                "transaction_id": "1559299687350",
                "enterprise_id": "9df5797e-b537-4a76-be4b-06b7b995dd98",
,               "merchant_id": "e68cbbb0-cc99-11ea-ae7d-9db0e962257d",
                "merchant_name": "Store 10001",
                "terminal_id": "e68cbbb0-cc99-11ea-ae7d-9db0e962267d",
                "terminal_sn": "SN0000100001002",
```

```
"data_type": "",
"date_time": "2021-03-24 12:12:12",
"phone": "13405011999,
"created_at": 1660897551,
"masked_card_num": "460337******3679",
"entry_method": "swipe",
"card_brand": "visa",
"card_technology": "cas",
"transaction_type": "sale",
"amount": 600.00,
"tax_amount": 10.00,
"surcharge_amount": 20.00,
"customer_fee_amount": 20.00,
"cashback_amount": 1.01,
"auth_amount": 1325.99,
"tip_amount": 7.99,
"coupon": 7.00,
"autoload_amount": 500.09,
"redeem_amount": 500.08,
"other_amount": 7.99,
"total_amount": 609.00,
"approved_code": "206746",
"response_code": "AUTH\/TKT 206746",
"result": "approved",
"cvm": "PIN",
"currency": "USD",
"signature": "ABCD",
"ticket_header": "txnTicketHeader",
"ticket_footer": "txnTicketFooter",
"acquirer_name": "txnAcquirerName",
"issuer_name": "txnIssuerName",
"stan": "txnSTAN",
"action_code": "txnActionCode",
"id_online": "txnIDOnline",
"aid": "txnAID",
"label": "txnLabel",
"tvr": "txnTVR",
"iad": "txnIAD",
```

```
                "card_cryptogram": "txnCardCryptogram",
                "courtesy_message": "txnCourtesyMessage",
                "signal_strength": "txnSignalStrength",
                "customer_fee_name": "COVID-19 Clean Fee",
                "batch_number": "001",
                "device_id": "12345",
                "invoice_num": "00000001",
                "pay_type": "credit",
                "pos_id": "55677",
                "rrn": "012345678999",
                "store_id": "67441",
                "cash_price": 12.89,
                "declined_by_card": "123",
                "declined_by_avs": "456",
                "clerk_id": "001",
                "tid": "",
                "mid": ""
                "dcc_amount":0.00 ,
                "dcc_rate": ,
                "dcc_currency": ,
                "dcc_markup_rate": ,
                "ins_first_amount": 0.00,
                "ins_monthly_amount": 0.00 ,
                "ins_count": 0
            }
        ]
    },
    "msg": "success"
}
```


Return Parameter Description

Parameter	Type	Description
is_last	Bool	whether it is the last request, if it is true, it means that all data has been returned, and the data acquire can be finished.
row_count	Integer	The number of data rows for transactions
transactions	Object	Array of transaction records, please refer to

	Array	Transaction return parameter description.

Transaction Return Parameter Description

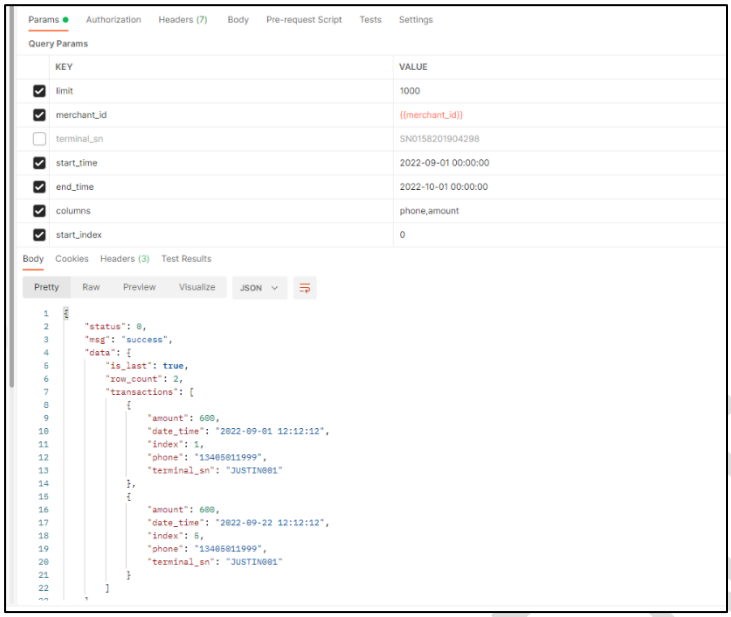
Parameter	Type	Description
index	Integer	record id(index)
enterprise_id	String	cashub enterprise uuid
merchant_id	String	cashub merchant uuid
terminal_id	String	cashub terminal uuid
terminal_sn	String	
transaction_id	String	
data_type	String	
date_time	String	
phone	String	
created_at	Integer	
masked_card_num	String	
entry_method	String	
card_brand	String	
card_technology	String	
transaction_type	String	
amount	Float	
tax_amount	Float	
surcharge_amount	Float	
customer_fee_amount	Float	
cashback_amount	Float	
auth_amount	Float	
tip_amount	Float	
coupon	Float	coupon amount

autoload_amount	Float	
redeem_amount	Float	
other_amount	Float	
total_amount	Float	total = base+tip+cashback
approved_code	String	
response_code	String	
result	String	
cvm	String	
currency	String	
signature	String	
ticket_header	String	
ticket_footer	String	
acquirer_name	String	
issuer_name	String	
stan	String	
action_code	String	
id_online	String	
aid	String	
label	String	
tvr	String	
iad	String	
card_cryptogram	String	
courtesy_message	String	
signal_strength	String	
customer_fee_name	String	

batch_number	String	
device_id	String	
invoice_num	String	
pay_type	String	
pos_id	String	
rrn	String	
store_id	String	
cash_price	String	
clerk_id	String	
declined_by_card	String	
declined_by_avs	String	
tid	String	
mid	String	
dcc_amount	Float	
dcc_rate	String	
dcc_currency	String	
dcc_markup_rate	String	
ins_first_amount	Float	
ins_monthly_amount	Float	
ins_count	Integer	

Example

Situation: Currently, the transaction records in September need to be synchronized, and the time range is from 2022-09-01 to 2022-10-01. If 1000 records are acquired each time, the request is like the following photo (take postman as an example).



The user can see that the response has only 2 transaction records and is_last=true, which indicated that this query has acquired all transaction records. If the user only acquires 1 record at a time, the user can set limit=1. By doing this, the user can see is_last=false, which indicated that the user still needs to acquire data. Before the user goes on acquiring, the user needs to set up the maximum index of the last acquiring to the request parameter start_index.

By default, the index of the response is sorted from small to large, so the user only needs to take the index of the last transaction record to tell the server to start acquiring data from an index larger than this start_index.

The user will get another transaction record with index=5. If is_last=false, the user needs to modify start_index=5 and acquire the data again until is_last=true, which means that the user has acquired all the data. The data acquiring process is a recursion.

2.2 Synchronize Settlement Records

This API is used to synchronize settlement records

Interface Invocation Request Description

http request method:
GET
https://{api_gateway_host}/api/svms/sync/settlements?access_token={ACCESS_TOKEN}&limit={LIMIT}&terminal_sn={TERMINAL_SN}&merchant_id={MERCHANT_ID}&terminal_id={TERMINAL_ID}&start_time={START_TIME}&end_time={END_TIME}&columns={COLUMNS}&start_index={START_INDEX}

Parameter Description

Parameter	Type	Required	Rules	Description
limit	Integer	Yes	min=1,max=1000	Limit the maximum number of data returned at a time
terminal_sn	String	No	max:32	If the user needs to acquire the data of a single terminal, the user can specify terminal SN or terminal id to acquire the data
merchant_id	String	No	uuid	CASHUB merchant uuid
terminal_id	String	No	uuid	CASHUB terminal uuid
start_time	String	Yes	format: 2006-01-02 15:04:05	within 1 month time >= start_time
end_time	String	Yes	format: 2006-01-02 15:04:05	time < end_time

columns	String	No		Columns to return, please use comma to separate different column. The default setting is to return all columns. For specific columns, please refer to **settlement return parameter description** (index, terminal_sn, date_time will be returned every time, no special control is required)
start_index	Integer	No		The starting data index (excluding itself), is used to obtain records in batches. If the user doesn't know the maximum record index that has already acquired, the user can start from 0, but it may cause the data to be acquired repeatedly, the user must do data anti-repeat processing.

Normal Return Description

Normally, the interface responds to the following JSON packets:


```
{
    "status": 0,
    "msg": "success",
    "data": {
        "is_last": true,
        "row_count": 1,
        "settlements": [
            {
                "approved_code": "2067461",
                "batch_number": "001",
                "acquirer_name": "001",
                "card_brand": "visa",
                "created_at": 1660897551,
                "data_type": "settlement_v1",
```

```
                "date_time": "2022-09-22 12:12:12",
                "enterprise_id": "e101b746-f2f4-4ff9-8f35-b3ed2450a9bd",
                "index": 1,
                "merchant_id": "2a8103af-baff-4a83-8c66-cbc5d3699727",
                "phone": "13405011999",
                "response_code": "738139",
                "result": "approved",
                "settlement_id": "1559299687356",
                "settlement_type": "settlement",
                "terminal_id": "37c2e8ab-9548-47ea-80bf-143865eabcc1",
                "terminal_sn": "JUSTIN001",
                "total_refund_amount": 1,
                "total_refund_count": 1,
                "total_sale_amount": 0.2,
                "total_sale_count": 1,
                "total_settle_amount": 1,
                "total_settle_count": 1,
                "total_topup_amount": 1,
                "total_topup_count": 1,
                "total_void_amount": 1,
                "total_void_count": 1,
                "total_void_refund_amount": 1,
                "total_void_refund_count": 1,
                "total_void_topup_amount": 1,
                "total_void_topup_count": 1
            }
        ]
    }
}
```


Return Parameter Description

Parameter	Type	Description
is_last	Bool	whether it is the last request, if it is true, it means that all data has been returned, and the data acquire can be finished.
row_count	Integer	The number of data rows for transactions
settlements	Object	Array of settlement records, please refer to

	Array	**Settlement return parameter description.**

Settlement Return Parameter Description

Parameter	Type	Description
index	Integer	record id
enterprise_id	String	
merchant_id	String	
merchant_name	String	
terminal_id	String	
terminal_sn	String	
settlement_id	String	
data_type	String	
date_time	String	
phone	String	
created_at	Integer	
card_brand	String	
settlement_type	String	current settlement only has one type
approved_code	String	
response_code	String	
result	String	
batch_number	String	
acquirer_name	String	
total_sale_amount	Float	
total_sale_count	Integer	
total_void_amount	Float	
total_void_count	Integer	
total_refund_amo	Float	

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total_refund_count	Integer	
total_void_refund_amount	Float	
total_void_refund_count	Integer	
total_topup_amount	Float	
total_topup_count	Integer	
total_void_topup_amount	Float	
total_void_topup_count	Integer	
total_settle_amount	Float	
total_settle_count	Integer	

Example

Except for the different data returned by settlements, please refer to the example in 2.1 Synchronize Transaction Records.