

# Payeezy Partner Reporting API Guide

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## Payeezy

Payeezy<sup>SM</sup>, from First Data, is part of the Small Business Solutions Suite, which includes Clover<sup>TM</sup>, Insightics<sup>SM</sup>, Perka<sup>TM</sup> and TransArmor<sup>®</sup>. The Payeezy eCommerce Solution empowers SMBs to expand their horizons and easily grow their business online or via mobile by reaching new customers no matter where they are.

## Payeezy Partner Reporting API

Use our powerful query engine to retrieve activity records. It supports complex filtering, sorting, pagination and more. You may also supply additional query parameters such as search terms, offset, and limit to refine your query. This is exclusively for third party partners and applicable for a live environment only.

Note: Reporting API has been integrated with Payeezy application. Invoking Reporting API will require apikey and token embedded in Http request header in order to go through the security filter.

## Query Request

The API can be queried as a REST-ful endpoint:

1. Get transactions for a particular date:

GET `/v1/transactions?start_date=20131103&end_date=20131103`

apikey: 4567 pz\_token: fdoa-2a3e6d2f0819b69404d3bcfedff476d52a3e6d2f0819b694 Need embed in header, same for all the request below.

Each URL query parameter specifies an API query parameter that must be URL encoded. Merchant ID is passed in as "ID". For the demo purpose, the ID is passed in from URL, in production, it has to be embedded and retrieved from request header.

2. Get transactions for a particular date and add additional search criterias: GET

`/v1/transactions?id=456161452994&start_date=20131103&end_date=20131103&auth_Code=381229` Here "authCode" is an additional search term used to refine the query

3. Error Handling: Missing required search terms

`/v1/transactions?id=456161452994&start_date=20131103&auth_Code=381229` MID, startdate and enddate are required fields for every transaction query. Here we intentionally left out "enddate" from the query. The API should return 400 bad request response and error payload.

4. Error Handling, Invalid search terms: GET

`/v1/transactions?id=456161452994&start_date=20131103&end_date=20131103&auth_Code=381229` Reporting API ensure every query is type safe. That is, every search term is a valid search key mapping to the backend end data source. Only eligible search key can be used for query. Here we intentionally use an invalid search key "authCode" in the query. The API should return error payload in json format and indicate "authCode is an invalid search key".

5. Search Transaction with sorting enabled GET

`/v1/transactions?id=456161452994&start_date=20131103&end_date=20131103&auth_Code=381229&sort=-authtermid` Sort

is specified using "sort=<sort element1>,<sort element2>" format. (-) before sort element indicates descending order, otherwise it will be ascending order. 400 bad request will be thrown if sorting key is not valid, i.e. not a sortable field in the transaction query.

#### 6. Query metrics Only GET

/v1/transactions?id=456161452994&start\_date=20131103&end\_date=20131103&metrics=txnAmt

#### 7. Query metrics with dimensions breakdown GET

/v1/transactions?id=456161452994&start\_date=20131103&end\_date=20131103&metrics=txnAmt&dimension=currencyCode, prodCodeAbv

#### 8. Query metrics with dimension breakdown, added sorting GET

/v1/transactions?id=456161452994&start\_date=20131103&end\_date=20131103&metrics=txnAmt&dimension=currencyCode, prodCodeAbv&sort=-prodCodeAbv

#### 9. Error Handling, wrong sorting key when metrics and dimension is enabled GET

/v1/transactions?id=456161452994&start\_date=20131103&end\_date=20131103&metrics=txnAmt&dimension=currencyCode, prodCodeAbv&sort=prodCurrCd

## Query Parameter Summery

Name	Value	Required	Summary
start_date	string	yes	Start date for fetching transaction data. Requests can specify a start date formatted as YYYYMMDD
end_date	string	yes	End date for fetching transaction data. Request can specify an end date formatted as YYYYMMDD
Metrics	string	no	A list of comma-separated metrics, they will be used by Sum() when group by option is enabled (implemented).
Sort	string	no	A list of comma-separated metrics indicating the sorting order and sorting direction for the returned data. (-), if metrics are enabled, then only fields included in the metrics or dimension input can be sorted
Fields	string	no	A list of fields returned by query. This element is used for partial response. By default, all transaction fields will be returned. (implemented)

dimension	string	no	A list of fields used for group by functions. When groupBy is enabled, we will request at least one metrics element as an input. User can only request 7 groupBY fields in one query (implemented)
Offset	integer	no	The first row of data to retrieve, starting at 0. Use this parameter as a pagination mechanism along with the limit parameter.
Limit	integer	no	The maximum number of rows to include in the response. This is specified by user. However, a hard limit (1000) will also set by system and it will override user input if user input is too big (implemented)
Output	string	no	The desired output type for the transaction data returned in the response. Acceptable values are json. Default: json. (pending implementation)

## Transaction field eligible for searching, sorting, and aggregation (metrics and dimension)

Name	Value	Required	Summary
merchant_id	string	no	Only be used by aggregation. Can't be used for searching, MID should be passed in from apikey and developer_id
merchant_name	string	no	
transaction_status	string	no	Transaction Status: Processed, Cancelled, Declined, Dropped, Rejected
terminal_id	string	no	

transaction_type_desc	string	no	SALE, CREDIT, CASH ADVANCE, etc.
transaction_mode_desc	string	no	Electronic, Manual, Swiped, Unknown
card_type	string	no	
transaction_response_code	string	no	
transaction_response_code_desc	string	no	Credit transaction Capture of post authorization Invalid, host not available, etc
cashback_amount	integer	no	
auth_code	string	no	
transaction_amount	integer	no	
pc_entry_mode_desc	string	no	
auth_amount	integer	no	
cashback_reference	string	no	
reject_reason	string	no	
product_code	string	no	
product_code_abv	string	no	
product_code_category	string	no	FLEET CREDIT,etc
currency_code_abv	string	no	
card_usage	string	no	
transaction_service_code	string	no	
auth_terminal_id	string	no	
store_nbr	string	no	
transaction_auth_type	string	no	
transaction_auth_type_desc	string	no	Retail Purchase Cash Advance Wire Transfer Credit Pre Auth, etc.
tpp_id	string	no	

Note: The payload returned by Reporting API contains Date in unix epoch time (i.e. 1408406400000). A user-created method is needed to parse the time and format it to be user-desired format.