PGH API Specification

Version	Date	Description
0.1	Dec-2023	PGH API Integration Document

S. No.	API	Description
1.	Checkout API	Checkout API
2.	Status Enquiry	To get status of the transaction
3.	Webhook	Callback initiated to merchant URL

Environment	
UAT	https://sandbox.trustflowpay.com
PROD	https://secure.trustflowpay.com

1. Checkout API

Create an order form with mentioned below parameters. Once form has been created and submitted then user will be redirected to trustflowpay payment page.

To maximize conversion, trustflowpay recommends that you redirect customers to the payment gateway in same browser window.

Amount format is in the least parts without decimals like USD 1.00 will be written as 100.

Endpoint: /pgui/jsp/paymentRequest

S No.	Parameter Name	Data Type	Mandatory
1	APP_ID	Numeric	Yes
2	MERCHANTNAME	Alphanumeric	No
3	ORDER_ID	Alphanumeric	Yes
4	TXNTYPE	Alphabet	Yes
5	CUST_NAME	Alphabet	No
6	CUST_FIRST_NAME	Alphabet	Yes
7	CUST_LAST_NAME	Alphabet	Yes
8	CUST_STREET_ADDRESS1	Alphanumeric	No
9	CUST_CITY	Alphabet	Yes
10	CUST_STATE	Alphabet	Yes
11	CUST_COUNTRY	Alphabet	Yes
12	CUST_ZIP	Numeric	Yes
13	CUST_PHONE	Numeric	Yes
14	CUST_EMAIL	Alphanumeric	Yes
15	PRODUCT_DESC	Alphanumeric	No
16	AMOUNT	Numeric	Yes
17	RETURN_URL	URL	Yes
18	HASH	Alphanumeric	Yes
19	CUST_SHIP_FIRST_NAME	Alphabet	No
20	CUST_SHIP_LAST_NAME	Alphabet	No
21	CUST_SHIP_EMAIL	Alphanumeric	No
22	CUST_SHIP_STREET_ADDRESS1	Alphanumeric	No
23	CUST_SHIP_STREET_ADDRESS2	Alphanumeric	No
24	CUST_SHIP_CITY	Alphabet	No
25	CUST_SHIP_STATE	Alphabet	No
26	CUST_SHIP_COUNTRY	Alphabet	No
27	CUST_SHIP_ZIP	Numeric	No
28	CUST_SHIP_PHONE	Numeric	No

- **HASH** generation mechanism is shared in document (**Appendix.pdf**).
- **ORDER_ID** must be the one Merchant used while initiating the transaction
- **CURRENCY_CODE** must be the one Merchant used while initiating the transaction
- **TXNTYPE** must be **SALE**
- **AMOUNT** must not be in decimal i.e. USD 1.20 should always be mentioned as 120.
- All requests expect amounts to be provided in a currency's smallest unit (Minor Units). For example, to charge 10.00 USD, provide an amount value of 1000 (that is, 1000 cents).
- Match the response hash that is present in the response against the merchant application calculated hash value using the response params. In case the merchant hash does not match that transaction must not be considered a successful transaction.

NOTE: PLEASE DO NOT RELY ON ANY OTHER RESPONSE THAN RESPONSE_CODE + STATUS. ALL OTHER MESSAGES MAY CHANGE. ONLY RESPONSE_CODE = 000 + STATUS = 'Captured' = SUCCESSFUL TRANSACTION. REST ANY OF THE COMBINATIONS LIKE RESPONSE_CODE =000 + STATUS = Enrolled/PENDING DOES NOT MEAN ITS SUCCESS.

ITS MANDATORY TO IMPLEMENT STATUS ENQUIRY BECAUSE IN CASES WHEN THERE IS NO RESPONSE THROUGH CALLBACK OR RETURN URL DUE TO ANY EXCEPTIONS OR NETWORK ERROR STATUS API CAN HELP GET THE FINAL STATUS OF THE TRANSACTION.

S No.	Parameter Name	Data Type
1	CUST_NAME	Customer name
2	TXNTYPE	Type of transaction processed
3	AMOUNT	Total Sale Amount
4	CURRENCY_CODE	3-digit code of the currency
5	ORDER_ID	Merchant reference number
6	APP_ID	APP_ID is given by trustflowpay
7	TXN_ID	Transaction Id generated by trustflowpay to identify the current step
8	PAYMENT_TYPE	Type of payment mode used by customer
9	MOP_TYPE	Method of payment
10	CARD_MASK	Masked card number for card txns
11	PG_REF_NUM	Id generated by trustflowpay. Use for further communication with trustflowpay, for tracking the full order
12	RESPONSE_CODE	Code for transaction status
13	RESPONSE_MESSAGE	Response message for transaction status
14	HASH	Unique value generated by SHA 256 hashing algorithm
15	ECI	Bank issued ECI flag

16	AUTH_CODE	Authorization code
17	RRN	Bank reference number
18	AUTH_CODE	Authorization code
19	AVR	Address verification flag
20	ACQ_ID	Bank reference number
21	STATUS	Transaction status
22	CUST_EMAIL	Echo back field
23	CUST_ID	Echo back field
24	CUST_PHONE	Echo back field
25	PG_TXN_MESSAGE	Detailed message for transaction
26	RETURN_URL	Echo back field
27	RESPONSE_DATE	Detailed message for transaction
28	RESPONSE_TIME	Echo back field
29	PRODUCT_DESC	Detailed message for transaction
30	CARD_ISSUER_BANK	Echo back field
31	CARD_ISSUER_COUNTRY	Detailed message for transaction
32	TOTAL_AMOUNT	Total amount debited to customer in case of surcharge model

2. Status Enquiry

Initiate the request to get the status of any transaction, being initiated with trustflowpay. It is mandatory to implement status enquiry because in cases when there is no response through callback or return URL due to any exceptions or network error. Status API can help to get the final status of the transaction.

- **Endpoint: /pgui/services/paymentServices/transactionStatus**

S No.	Parameter Name	Data Type	Mandatory
1	APP_ID	Numeric	Yes
2	TXN_ID	Numeric	Yes
3	ORDER_ID	AlphaNumeric	No
4	CURRENCY_CODE	Numeric	Yes
5	AMOUNT	Numeric	Yes
6	HASH	AlphaNumeric	Yes

- Request must be as JSON based REST API (HTTP POST).
- **AMOUNT** must not be in decimal.
- **HASH** generation mechanism is mentioned below.
- **ORDER_ID** must be the one Merchant used while initiating the transaction.
- **CURRENCY_CODE** must be the one Merchant used while initiating the transaction.
- **TXN_ID** must be the one Merchant received in response from trustflowpay.
- It is recommended to check the combination of status and response code received in response.
  Response Code: (000) + Status: (Captured) = Successfully Captured

NOTE: PLEASE DO NOT RELY ON ANY OTHER RESPONSE THAN RESPONSE_CODE + STATUS. ALL OTHER MESSAGES MAY CHANGE. ONLY RESPONSE_CODE = 000 + STATUS = 'Captured' = SUCCESSFUL TRANSACTION. REST ANY OF THE COMBINATIONS LIKE RESPONSE_CODE =000 + STATUS = Enrolled/PENDING DOES NOT MEAN ITS SUCCESS.

3. Webhook / Callback

Trustflowpay system trigger's a webhook as soon as there's an update in the status of transaction, in order to get webhooks from trustflowpay, merchant need to provide an URL at the time of Integration to trustflowpay on which the merchant will keep on receiving JSON based callbacks.

Sample webhook URL Endpoint: https://www.merchant.com/trustflowpay/webhook

- Webhook Sample

```
{
 "BILLING_CUST_NAME": "John Snow",
 "RESPONSE_DATE_TIME": "2023-01-16 21:57:32",
 "RESPONSE_CODE": "000",
 "CUST_PHONE": "2251455289",
 "CURRENCY_CODE": "840",
 "CURRENCY_CODE_ALPHA": "USD",
 "STATUS": "Captured",
 "PRODUCT_DESC": "840",
 "CUST_STREET_ADDRESS1": "House 123",
 "CUST_CITY": "Birmingham",
 "AMOUNT": "1000",
 "RESPONSE_MESSAGE": "SUCCESS",
 "MERCHANT_COUNTRY": "US",
 "CUST_EMAIL": "test@test.com",
 "CUST_ZIP": "20015",
 "AMOUNT_DECIMAL": "10.00",
 "APP_ID": "1000221129001154",
 "TXN_ID": "1001230116215646",
 "MERCHANT_BUSINESS_NAME": "Mark One",
 "TXNTYPE": "NEWORDER",
 "CUST_COUNTRY": "US",
 "DUPLICATE_YN": "N",
 "HASH": "494440FFB25A0B9C3008A37F8D9F072AE5F5B7828EE757F4FA290CF5157B3C23",
 "RETURN_URL": "https://www.merchant.com/pgui/jsp/response.jsp",
 "ORDER_ID": "SIGN1673886404099",
 "MERCHANT_MOBILE_NO": "7711440843",
 "CUST_NAME": "John Snow"
}
```

NOTE: PLEASE DO NOT RELY ON ANY OTHER RESPONSE THAN RESPONSE_CODE + STATUS. ALL OTHER MESSAGES MAY CHANGE. ONLY RESPONSE_CODE = 000 + STATUS = 'Captured' = SUCCESSFUL TRANSACTION. REST ANY OF THE COMBINATIONS LIKE RESPONSE_CODE =000 + STATUS = Enrolled/PENDING DOES NOT MEAN ITS SUCCESS.

Test Details

Card Number	CVV	Expiry	Pin	Mode	Scheme
4111110000000211	123	12-2030	111111	3DS	Visa
4111110000000021	123	12-2030	111111	2DS	Visa
5100000000000511	123	12-2030	111111	3DS	Master Card
5100000000000321	123	12-2030	111111	2DS	Master Card
3550998650131033	123	12-2030	111111	3DS	JCB
356600020000410	123	12-2030	111111	2DS	JCB

** Please ask support to enable non-3DS before trying 2D Card

Refer to document "**Appendix Payin Integration v0.1.pdf**" for following:

- Response Codes

- Bank Codes

- Payment methods

- Mop Types

- Currency Codes

- Country Codes

- Hash Generation Mechanism

- Fields Description