IPG Gateway

CAPTURE v 3.0 May 1, 2019

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Document Purpose

The purpose of this document is to describe the CAPTURE API Operation to enable merchant developers to integrate their webpages with the IPG Gateway. Refer to the *IPG Gateway – 0 – Overview* document for how this API Operation is used in the merchant processes.

A CAPTURE API Operation is required after an AUTH Request, not a PURCHASE Request.

Transaction Status

All transactions that can be captured have the status SET_FOR_CAPTURE, which means the payment is authorised, through the AUTH/PURCHASE/VERIFY – API Operation (see *IPG Gateway – 2 – AUTH-PURCHASE-VERIFY – Direct API* or *IPG Gateway – 2 – AUTH-PURCHASE-VERIFY – Hosted Payment Page*, as appropriate to the integration method)).

The successful CAPTURE API Operation will set the transaction status to CAPTURED.

A CAPTURE API Operation can be unsuccessful for two reasons:

- The transaction status is set to ERROR if there was an error in the API Operation
  - usually the result of a communication error between the customer browser and the IPG Gateway
- The transaction status is set to DECLINED if:
  - the card payment was refused by the acquirer, or
  - the 3DS authentication failed

A failure response is sent.

Funds Transfer

The transfer of funds from the customers' accounts to the merchant account is not instantaneous.

The IPG Gateway CAPTURE API Operation flags transactions for batch processing later in the day, according to the acquirers' requirements. This batch process informs the acquirer that the funds should be transferred.

The actual transfer of funds is performed by the acquirer.

This delay allows for the VOID API Operation (see *IPG Gateway – 4 - VOID*) to be performed before the CAPTURE API Operation.

Only the full authorised amount of the transaction can be captured, based on the amount authorised in the AUTH API operation. Partial captures are currently not supported.

Full or Partial Captures

The IPG Gateway caters for full or partial captures. If the full amount is not captured the residual amount is released to the cardholder. Multiple partial captures are not currently catered for.

1 Session Token API Operation

1.1 Session Token Request

1.1.1 Format

POST Request to Session Token Request URL (see Section 3 of the *IPG Gateway – 0 – Overview* document)

1.1.2 Definition

Parameter	Data Type	Mandatory	Description
merchantId	Integer (18)	Y	The identifier for the merchant in the IPG Gateway provided at on-boarding
password	String (64)	Y	The merchant's password to the IPG Gateway provided at on-boarding
action	String (enum)	Y	Must be "CAPTURE"
timestamp	Integer (18)	Y	Milliseconds since 1970-01-01 00:00:00
allowOriginUrl	String (253)	Y	The merchant's URL that will make the Capture Request (section 2.1) Cross-Origin Resource Sharing (CORS) headers will allow only this origin.
originalTxId	String (18)	N	The IPG Gateway transaction Id of the transaction to be captured This will have been returned in the *txId* field of the Auth/Purchase Response – Processed (see *IPG Gateway – 2 – AUTH-PURCHASE-VERIFY – Direct API* or *IPG Gateway – 2 – AUTH-PURCHASE-VERIFY – Hosted Payment Page*, as appropriate to the integration method)
originalMerchantTxId	String (50)	Y	The merchant's original transaction identifier of the transaction to be captured, that was provided in the *merchantTxId* field of the Auth/Purchase Session Token Request and Auth/Purchase Request (see *IPG Gateway – 2 – AUTH-PURCHASE-VERIFY – Direct API* or *IPG Gateway – 2 – AUTH-PURCHASE-VERIFY – Hosted Payment Page*, as appropriate to the integration method)
agentId	String (18)	N	Identifier of the merchant's operator or agent on behalf of the end customer, if the operation is not performed by the merchant, and the merchant wants to track the operator who performed the transaction Note: this is different to the *operatorId* and *userAgent* fields of the Auth/Purchase Response – Processed (see *IPG Gateway – 2 – AUTH-PURCHASE-VERIFY – Direct API* or *IPG Gateway – 2 – AUTH-PURCHASE-VERIFY – Hosted Payment Page*, as appropriate to the integration method)
amount	BigDecimal (10.2 or 10.3) BigDecimal (15.2 or 15.3)	Y	The amount to capture Can be less than or equal to the original transaction amount Cannot be more than the original transaction amount

1.1.3 Example

merchantId=1111111&password=klw74U6yt40mNo&originalTxId=123456789&originalMerchantTxId=XYZ123456789ABC&allowOriginUrl=www.merchantsite.com&action=CAPTURE&timestamp=1249751864238&agentId=brian01&amount=120

1.2 Session Token Response - Processed

1.2.1 Format

JSON

1.2.2 Definition

Parameter	Data Type	Description
result	String (40)	Will always be “success”
merchantId	Integer (18)	The *merchantId* value received in the Session Token Request (section 1.1)
token	String (40)	The Session Token that is a one-time use, hexadecimal string The Session Token that must only be used for the Capture Request (see Section 2.1) Session tokens are valid for 3600 second (1 hour) after which they expire Any requests with expired session tokens will be rejected
resultId	String (40)	Hexadecimal string that is to be used in any support request calls
processingTime	Integer (6)	The time in seconds for the process to complete
additionalDetails	Array	Not used – will always be “{}” or not included

1.2.3 Example

{
"result":"success",
"merchantId":1111111,
"token":"abcde12345abcde12345",
”resultId”:”fghij67890fghij67890”,
“processingTime”: 2
}

1.3 Session Token Response – Not Processed

1.3.1 Format

JSON

1.3.2 Definition

Parameter	Data Type	Description
result	String (40)	Will always be “failure”
resultId	String (40)	Hexadecimal string that is to be used in any support request calls
processingTime	Integer (6)	The time in seconds for the process to complete
additionalDetails	Array	Not used – will always be “{}” or not included
errors	String Array	List of issues

1.3.3 Example

{
"result":"failure",
"merchantId":1111111,
"errors":[{ "messageCode": "This field is required in [REQUEST]", "fieldName": "password" }],
“processingTime”: 4
}

2 CAPTURE API Operation

2.1 Capture Request

2.1.1 Format

POST Request to Action Request URL (see Section 3 of the *IPG Gateway – 0 – Overview* document)

2.1.2 Definition

Parameter	Data Type	Mandatory	Description
merchantId	Integer (18)	Y	The identifier for the merchant in the IPG Gateway provided at on-boarding This must be the same as that sent in the Session Token Request (section 1.1)
token	String (40)	Y	Session Token received in the Session Token Response - Processed (section 1.2)

2.1.3 Example

merchantId=1111111&token=abcde12345abcde12345

2.2 Capture Response – Processed

2.2.1 Format

JSON

2.2.2 Definition

Parameter	Data Type	Description
result	String (40)	Will always be “success”
merchantId	Integer (18)	The *merchantId* value sent in the Session Token Request (section 1.1)
action	String (enum)	Will always be “CAPTURE”
originalMerchantTxId	String (50)	The merchant transaction identifier of the transaction that was captured
originalTxId	Integer (18)	The IPG Gateway transaction Id of the transaction captured sent in the Session Token Request (section 1.1)
txId	Integer (18)	The unique identifier for the capture transaction in the IPG Gateway
amount	BigDecimal (15.2 or 15.3)	The transaction amount captured sent in the Session Token Request (section 1.1)
customerId	String (20)	The IPG Gateway customer identifier used in the original and capture transactions
pan	String (100)	The customer account value/number used in the original and the capture transactions
brandId	Integer (18)	The *brandId* value for the original and the capture transaction
paymentSolutionId	Integer (18)	The *paymentSolutionId* value used in the original and capture transactions
status	String (enum)	The status of the transaction in IPG Gateway: Status: SET_FOR_CAPTURE — Condition: If “CAPTURE” successful. All capture transactions are batch processed, when the status will be set to CAPTURED Status: ERROR — Condition: If an error was returned by the payment process
errors	String (400)	Any errors that occurred during the successful processing of a transaction
resultId	String (40)	Hexadecimal string that is to be used in any support request calls
additionalDetails	Array	Not used – will always be “{}” or not included

Parameter	Data Type	Description
processingTime	Integer (6)	The time in seconds for the process to complete

2.2.3 Example

{
“result”:”success”,
"merchantId":111111,
"originalMerchantTxId":"abc123",
"originalTxId":123,
"amount":12.50,
"customerId":"mgn456",
"action":"CAPTURE",
"pan":"45ae201ghy23498FjMj701",
"brandId":3,
"paymentSolutionId":500,
”status”:”SET_FOR_CAPTURE”,
"resultId": "4fd9f223-bb1a-4879-a6e6-81a10b53bdca",
"processingTime": 948
}

2.3 Capture Response – Not Processed

2.3.1 Format

JSON

2.3.2 Definition

Parameter	Data Type	Description
result	String (40)	Will always be “failure”
resultId	String (40)	Hexadecimal string that is to be used in any support request calls
additionalDetails	Array	Not used – will always be “{}” or not included
processingTime	Integer (6)	The time in seconds for the process to complete
errors	String Array	List of errors.

2.3.3 Example

{
"result": "failure",
"resultId": "308802f2-224d-44f5-b256-8d9443a72770",
"additionalDetails": {},
"errors": [
{ "messageCode": "This field is required in [TOKEN]", "fieldName": "amount" }
],
"processingTime": 173
}