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Document Purpose

The purpose of this document is to describe the REVERSE API Operation to enable merchant developers to integrate their webpages with the IPG Gateway. Refer to the *IPG Gateway* - 0 -

The IPG Gateway caters for immediate reversal of a purchase, i.e. undoing a purchase, that may have been made in error. The reverse transaction will be for the full amount only.

Reverses can only be performed on transactions with the status of CAPTURE that have not been settled, where the transaction date equal to the current day, the transaction time <= 23:59:59, and there are no associated REFUND (partial or full) transactions. Therefore, late applications for reverses may be declined and so a Refund API Call would be necessary.

Note: Reverses are also known as Void of Purchases or Undo() transactions.



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 onboarding
password	String (64)	Y	The merchant's password to the IPG Gateway provided at onboarding
action	String (enum)	Υ	Must be "REVERSE"
timestamp	Integer (18)	Υ	Milliseconds since 1970-01-01 00:00:00
allowOriginUrl	String (253)	Y	The merchant's URL that will make the Reverse Request (section 2.1), Cross-Origin Resource Sharing (CORS) headers will allow only this origin.
originalTxld	Integer (18)	N	The IPG Gateway transaction Id of the transaction to be reversed This will have been returned in the txld 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)
originalMerchantTxld	String (50)	Y	The merchant's original transaction identifier of the transaction to be reversed, that was provided in the <i>merchantTxId</i> field of the Auth/Purchase Session Token Request and Auth/Purchase Request (see <i>IPG Gateway – 2 – AUTH-PURCHASE-VERIFY – Direct API</i> or <i>IPG Gateway – 2 – AUTH-PURCHASE-VERIFY – Hosted Payment Page</i> , 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 not the same as the <i>operatorId</i> or <i>userAgent</i> fields of the Auth/Purchase Session Token Request and Auth/Purchase/Verify Request (see <i>IPG Gateway</i> – 2 – AUTH-PURCHASE-VERIFY – Direct API or <i>IPG Gateway</i> – 2 – AUTH-PURCHASE-VERIFY – Hosted Payment Page, as appropriate to the integration method)
reverseComment	String (500)	N	Free text field that allows a comments to be attached to the transaction record in the IPG Gateway

1.1.3 Example

 $action = REVERSE\& merchant Id = 167738\& password = WcuQNsptvvd2ftu5MMhU\& original Merchant TxId = 84Yf5iO28qFr3\\og8rWTo\& timestamp = 1555494136820\& allowOriginUrl = http://localhost:8083\& original TxId = 11622150$



1.2 Session Token Response - Processed

1.2.1 Format

JSON

1.2.2 Definition

Parameter	Data Type	Description
result String (enum)		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 Reverse 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",
    "resultId": "85034083-22dd-49ff-9906-495098c42501",
    "merchantId": "167738",
    "additionalDetails": {},
    "processingTime": 33,
    "token": "72102985-5a92-4cde-a51b-9459d37d97a9"
}
```



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"
errors	String Array	List of issues
processingTime	Integer (18)	The time in seconds for the process to complete
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

1.3.3 Example



2 REVERSE API Operation

2.1 Reverse 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)	Υ	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=167738&token=01f58c37-e3a2-43e2-b0d7-a03da130114e

2.2 Reverse Response - Processed

2.2.1 Format

JSON

2.2.2 Definition

Parameter/Label	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 "REVERSE"		
originalMerchantTxId	String (50)	The merchant transaction identifier of the transaction that was reversed		
originalTxId	Integer (18)	The IPG Gateway transaction Id of the transaction reversed sent in the Session Token Request (section 1.1)		
amount BigDecima (15.2 or 1		The transaction amount reversed sent in the Session Token Request (section 1.1)		
currency String (enum)		The transaction ISO alpha-3 currency code, as defined in the ISO 4217 standard, used in the original and reverse transactions		
customerId	String (20)	The IPG Gateway customer identifier used in the original and reverse transactions		
pan	String (100)	The customer account value/number used in the original and the reverse transactions. For payment card transactions this is the IPG Gateway Card Token.		
brandId Integer (1		The brandId value for the original and the reverse transaction		
paymentSolutionId	Integer (18)	The paymentSolutionId value used in the original and reverse transactions		
		The status of the transaction in IPG Gateway:		
Status	String (anum)	Status	Condition	
Status	String (enum)	REVERSED	If "REVERSE" successful	
		ERROR	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		
processingTime	Integer (6)	The time in seconds for the process to complete		
additionalDetails Array		Not used – will always be "{}" or not included		



Parameter/Label	Data Type	Description
customParameter1Or customParameter20Or	String (50)	The original 20 free text fields provided by the merchant in the Session Token Request of the Auth/Purchase/Verify API Operation
customParameter1 customParameter20	String (50)	20 free text fields provided by the merchant in the Session Token Request of the Auth/Purchase/Verify API Operation, with non-Basic Latin characters replaced by a space character. These values will have been sent for payment processing.

2.2.3 Example

```
{
       "amount": "163",
       "resultId": "4fd9f223-bb1a-4879-a6e6-81a10b53bdca",
       "originalMerchantTxId": "Yn5ufTMdNXwe9bYyrNay",
       "additionalDetails": {},
       "processingTime": 948,
       "result": "success",
       "merchantId": "167738",
       "brandId": "1677380000",
       "customerId": "zw72ejcNN1OL1Vy2zInw",
       "action": "REVERSE",
       "paymentSolutionId": "500",
       "currency": "USD",
       "pan": "8746507628231111",
       "originalTxId": "11622153",
       "status": "REVERSED"
}
```



2.3 Reverse Response - Not Processed

2.3.1 Format

JSON

2.3.2 Definition

Parameter	Data Type	Description
result	String (40)	Will always be "failure"
txId	Integer (18)	The unique identifier for the reverse transaction attempt in the IPG Gateway
errors	String Array	List of errors
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
customParameter1Or customParameter20Or	String (50)	The original 20 free text fields provided by the merchant in the Session Token Request of the Auth/Purchase/Verify API Operation
customParameter1 customParameter20	String (50)	20 free text fields provided by the merchant in the Session Token Request of the Auth/Purchase/Verify API Operation, with non-Basic Latin characters replaced by a space character. These values will have been sent for payment processing.

2.3.3 Example