# UniversalPay Gateway
## REVERSE v 4.0

**April 10, 2020**

universal
pay

Una empresa de

EVO®

# Contents

## Document Purpose

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

The **Error! Unknown document property name.** 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 *UniversalPay Gateway – 0 – Overview* document)

### 1.1.2 Definition

| Parameter | Data Type | Mandatory | Description |
|---|---|---|---|
| merchantId | Integer (18) | Y | The identifier for the merchant in the **Error! Unknown document property name.** provided at on-boarding |
| password | String (64) | Y | The merchant's password to the **Error! Unknown document property name.** provided at on-boarding |
| action | String (enum) | Y | Must be "REVERSE" |
| timestamp | Integer (18) | Y | Milliseconds since 1970-01-01 00:00:00 |
| allowOriginUrl | String (253) | Y | The merchant's URL that will make the Reverse Request (section 2), Cross-Origin Resource Sharing (CORS) headers will allow only this origin. |
| originalTxId | Integer (18) | N | The **Error! Unknown document property name.** transaction Id of the transaction to be reversed  This will have been returned in the *txId* field of the Auth/Purchase Response – Processed (see *UniversalPay Gateway – 2 – AUTH-PURCHASE-VERIFY – Direct API* or *UniversalPay 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 reversed, that was provided in the *merchantTxId* field of the Auth/Purchase Session Token Request and Auth/Purchase Request (see *UniversalPay Gateway – 2 – AUTH-PURCHASE-VERIFY – Direct API* or *UniversalPay 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 not the same as the *operatorId* or *userAgent* fields of the Auth/Purchase Session Token Request and Auth/Purchase/Verify Request (see *UniversalPay Gateway – 2 – AUTH-PURCHASE-VERIFY – Direct API* or *UniversalPay Gateway – 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 **Error! Unknown document property name.** |

### 1.1.3  Example

action=REVERSE&merchantId=167738&password=WcuQNsptvvd2ftu5MMhU&originalMer-
chantTxId=84Yf5iO28qFr3og8rWTo&timestamp=1555494136820&allowOriginUrl=http://localhost:8083&origi-
nalTxId=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) |
| | | 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 |
| additionalDe-tails | 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 |
| additionalDe-tails | Array | Not used – will always be "{}" or not included |

### 1.3.3 Example

```
{
"result": "failure",
"resultId": "99392fc1-bcd9-4fb0-8838-7dc37256cb51",
"additionalDetails": {},
"errors": [
{ "messageCode": "This field is required in [REQUEST]","fieldName": "password" }
],
"processingTime": 4
}
```

# 2. REVERSE API Operation

## 2.1 Reverse Request

### 2.1.1 Format

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

### 2.1.2 Definition

| Parameter | Data Type | Mandatory | Description |
|---|---|---|---|
| merchantId | Integer (18) | Y | The identifier for the merchant in the **Error! Unknown document property name.** provided at on-boarding<br><br>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 **Error! Unknown document property name.** transaction Id of the transaction reversed sent in the Session Token Request (section 1.1) |
| amount | BigDecimal (15.2 or 15.3) | 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 <u>ISO 4217 standard</u>, used in the original and reverse transactions |
| customerId | String (20) | The **Error! Unknown document property name.** 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 **Error! Unknown document property name.** Card Token. |
| brandId | Integer (18) | The *brandId* value for the original and the reverse transaction |

| Parameter/Label | Data Type | Description |
|---|---|---|
| paymentSolutionId | Integer (18) | The *paymentSolutionId* value used in the original and reverse transactions |
| Status | String (enum) | The status of the transaction in **Error! Unknown document property name.**: |

| Status | Condition |
|---|---|
| REVERSED | If "REVERSE" successful |
| ERROR | If an error was returned by the payment process |

| Parameter/Label | Data Type | Description |
|---|---|---|
| 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 |
| 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": "zw72ejcNN1OL1Vy2zlnw",
"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 **Error! Unknown document property name.** |
| 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

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