

Non-Terminal Transactions Getting Started

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Introduction

This document will describe and lay out how you would enable non-terminal transactions such as reversals, adjustments or refunds.

Transactions

Overview

1. Make a POST call to the reverse a transaction. The ISV makes a request to TB in order to get a return amount for a credit card transaction. This will take into an account to see if the transaction should be a void or a reversal.
2. Make a POST call to the adjust a transaction. Request for a transaction to be adjusted. The request will be saved but the transaction may or may not be adjusted based on its current state.
3. Make a POST call to capture a transaction. This captures a previously authorized transaction.

Request details:

URL: <https://tb-sandbox.paymentfusion.com/transactions/reversal>

Verb: POST

Required Parameters:

- **ref_number**= The reference number of the transaction that will be refunded.
- **merchant_id**=The merchant identifier that will be used to connect to the gateway.

Headers:

- **Authorization:** Needs to include `Basic` word before Base64 encoded `api_id:api_token`. The `api_id` is the identifier of the organization created on TAP; size range - 20. The `api_token` is the unique token previously generated by TAP and provided securely to the organization; size range - 3
Example: `Basic ODA5BVgrNdZkZmbiFlJlTThkYTA2eG00MzA5dHh1bWZnZgfdZDE=`
- **Accept:** Specifies the requested API version. If this field is not specified or has an invalid format, the call will be routed to a previous version. If the previous version does not exist, a 404 page will be displayed.
Example: `application/vnd.paymentfusion.v3.0.0+json`
- **Content-Type:** `application/x-www-form-urlencoded`
- **Cache-Control:** `no-cache` Host: `tb-sandbox.paymentfusion.com`
- **Accept-Encoding:** `gzip, deflate`
- **Connection:** `keep-alive`

Body:

```
{
  "ref_number": "0123453",
  "merchant_id": "54322109",
  "refund_amount": "",
  "force_duplicate": "",
  "tax_amount": ""
}
```

Response Body:

```
{
  "amount": "string",
  "auth_amount": "string",
  "gateway_auth_code": "string",
  "card_type": "string",
  "created_at": "string",
  "gateway_identifier": "string",
  "gateway_reference_number": "string",
  "gateway_response": {},
  "gateway_response_message": "string",
  "gateway_result_code": "string",
  "gateway_result_text": "string",
  "merchant_id": "string",
  "mid": "string",
  "remote_id": "string",
  "tid": "string",
  "tip_amount": "string",
  "transaction_status": "string",
  "v": "string"
}
```

Request details:

URL: <https://tb-sandbox.paymentfusion.com/transactions/adjust>

Verb: POST

Required Parameters:

- **ref_number**= The reference number of the transaction that will be refunded.
- **merchant_id**= The merchant identifier that will be used to connect to the gateway.
- **amount**= The original amount for this transaction, in USD up to 6 decimals, its last 4 digits must be 0. (e.g. "1", "1.00", "1.01", "1.2", "1.230000").

Headers:

- **Authorization:** Needs to include Basic word before Base64 encoded `api_id:api_token`. The `api_id` is the identifier of the organization created on TAP; size range - 20. The `api_token` is the unique token previously generated by TAP and provided securely to the organization; size range - 3
Example: `Basic ODA5BVgrNdZkZmbiFlJlTThkYTA2eG00MzA5dHh1bWZnZgfdZDE=`
- **Accept:** Specifies the requested API version. If this field is not specified or has an invalid format, the call will be routed to a previous version. If the previous version does not exist, a 404 page will be displayed.
Example: `application/vnd.paymentfusion.v3.0.0+json`
- **Content-Type:** `application/x-www-form-urlencoded`
- **Cache-Control:** `no-cache` Host: `tb-sandbox.paymentfusion.com`
- **Accept-Encoding:** `gzip, deflate`
- **Connection:** `keep-alive`

Body:

```
{
  "ref_number": "0123453",
  "merchant_id": "54322109",
  "new_amount": "10.00",
  "new_tip": "",
  "new_tax": ""
}
```

Response Body:

```
{
  "amount": "string",
  "auth_amount": "string",
  "gateway_auth_code": "string",
  "card_type": "string",
  "created_at": "string",
  "gateway_identifier": "string",
  "gateway_reference_number": "string",
  "gateway_response": {},
  "gateway_response_message": "string",
  "gateway_result_code": "string",
  "gateway_result_text": "string",
  "merchant_id": "string",
  "mid": "string",
  "remote_id": "string",
  "tid": "string",
  "tip_amount": "string",
  "transaction_status": "string",
  "v": "string"
}
```

Request details:

URL: <https://tb-sandbox.paymentfusion.com/transactions/capture>

Verb: POST

Required Parameters:

- **ref_number**= The reference number of the transaction that will be refunded.
- **merchant_id**=The merchant identifier that will be used to connect to the gateway.
- **new_amount**= The amount in USD up to 6 decimals that will be charged, must be a number greater than 0 and its last 4 digits must be 0. (e.g. "1", "1.00", "1.01", "1.2", "1.230000").

Headers:

- **Authorization:** Needs to include `Basic` word before Base64 encoded `api_id:api_token`. The `api_id` is the identifier of the organization created on TAP; size range - 20. The `api_token` is the unique token previously generated by TAP and provided securely

to the organization; size range - 3

Example: Basic ODA5BVgrNdZkZmbiFlJlTThkyTA2eG00MzA5dHh1bWZnZgfdZDE=

- **Accept:** Specifies the requested API version. If this field is not specified or has an invalid format, the call will be routed to a previous version. If the previous version does not exist, a 404 page will be displayed.
Example: application/vnd.paymentfusion.v3.0.0+json
- **Content-Type:** application/x-www-form-urlencoded
- **Cache-Control:** no-cache Host: tb-sandbox.paymentfusion.com
- **Accept-Encoding:** gzip, deflate
- **Connection:** keep-alive

Body:

```
{
  "ref_number": "0123453",
  "merchant_id": "54322109",
  "amount": "10.00"
}
```

Response Body:

```
{
  "amount": "string",
  "auth_amount": "string",
  "gateway_auth_code": "string",
  "card_type": "string",
  "created_at": "string",
  "gateway_identifier": "string",
  "gateway_reference_number": "string",
  "gateway_response": {},
  "gateway_response_message": "string",
  "gateway_result_code": "string",
  "gateway_result_text": "string",
  "merchant_id": "string",
  "mid": "string",
  "remote_id": "string",
  "tid": "string",
  "tip_amount": "string",
  "transaction_status": "string",
  "v": "string"
}
```

Process

Overview

1. Make a POST call to process a credit card transaction. Sends a card transaction directly to the gateway for processing. This is only used with saved credit card tokens, not actual credit card numbers.

2. Make a POST call to process an ACH transaction. Sends a transaction directly to the gateway for processing. This can be used with and ACH token or check data.
3. Make a POST call to process a cash transaction. Sends a cash transaction directly to the gateway for processing.

Request details:

URL: <https://tb-sandbox.paymentfusion.com/transactions/process/card>

Verb: POST

Required Parameters:

- **merchant_id**= The merchant identifier that will be used to connect to the gateway.
- **amount**= The amount to refund, in USD up to 6 decimals that will be charged, its last 4 digits must be 0. (e.g. "1", "1.00", "1.01", "1.2", "1.230000")
- **card**= The credit card token.

Recommended Parameters:

- **remote_ID**= Used for keeping track of a 3rd party identifier alongside the transaction object. This is typically used by the ISV to assign its own identifier to the transaction for easy matching in case any network issues appear. This is not validated for uniqueness.

Headers:

- **Authorization:** Needs to include `Basic` word before Base64 encoded `api_id:api_token`. The `api_id` is the identifier of the organization created on TAP; size range - 20. The `api_token` is the unique token previously generated by TAP and provided securely to the organization; size range - 3
Example: `Basic ODA5BVgrNdZkZmbiFlJlTThkYTA2eG00MzA5dHh1bWZnZgfdZDE=`
- **Accept:** Specifies the requested API version. If this field is not specified or has an invalid format, the call will be routed to a previous version. If the previous version does not exist, a 404 page will be displayed.
Example: `application/vnd.paymentfusion.v3.0.0+json`
- **Content-Type:** `application/x-www-form-urlencoded`
- **Cache-Control:** `no-cache` Host: `tb-sandbox.paymentfusion.com`
- **Accept-Encoding:** `gzip, deflate`
- **Connection:** `keep-alive`

Body:

```
{
  "merchant_id": "012345",
  "amount": "10.00",
  "card": "61202658830925ad54be8b24bd840f21e5cd1",
  "invoice": "string",
  "software": "string",
  "ip_address": "string",
  "clerk": "string",
  "billing_street": "string",
  "billing_city": "string",
  "billing_state": "string",
  "billing_zip": "string",
  "comments": "string",
  "description": "string",
  "command": "string",
  "tip_amount": "string",
  "force_duplicate": "boolean",
```

```
"allow_partial_auth": "boolean",
"street_address": "string",
"tax_amount": "string",
"remote_id": "string",
"client_id": "string"
}
```

Response body:

```
{
  "amount": "string",
  "auth_amount": "string",
  "gateway_auth_code": "string",
  "card_type": "string",
  "created_at": "string",
  "gateway_identifier": "string",
  "gateway_reference_number": "string",
  "gateway_response": {},
  "gateway_response_message": "string",
  "gateway_result_code": "string",
  "gateway_result_text": "string",
  "merchant_id": "string",
  "mid": "string",
  "remote_id": "string",
  "tid": "string",
  "tip_amount": "string",
  "transaction_status": "string",
  "v": "string"
}
```

Request details:

URL: <https://tb-sandbox.paymentfusion.com/transactions/process/ach>

Verb: POST

Required Parameters:

- **merchant_id**= The merchant identifier that will be used to connect to the gateway.
- **amount**= The amount in USD up to 6 decimals that will be charged, must be a number greater than 0 and its last 4 digits must be 0. (e.g. "1", "1.00", "1.01", "1.2", "1.230000").
- **ach_token**= The check token. It is required if either name_on_check, routing_number or account_number are not provided. **OR:**
- **name_on_check**= The check name on check. It is not required if ach_token is provided.
- **routing_number**= The check routing number. It is not required if ach_token is provided.
- **account_number**= The check account number. It is not required if ach_token is provided. **OR:**
- **micr** = The check MICR(Magnetic Ink Character Recognition)

Recommended Parameters:

- **remote_ID=** Used for keeping track of a 3rd party identifier alongside the transaction object. This is typically used by the ISV to assign its own identifier to the transaction for easy matching in case any network issues appear. This is not validated for uniqueness.

Headers:

- **Authorization:** Needs to include `Basic` word before Base64 encoded `api_id:api_token`. The `api_id` is the identifier of the organization created on TAP; size range - 20. The `api_token` is the unique token previously generated by TAP and provided securely to the organization; size range - 3
Example: `Basic ODA5BVgrNdZkZmbiFlJlTThkYTA2eG00MzA5dHh1bWZnZgfdZDE=`
- **Accept:** Specifies the requested API version. If this field is not specified or has an invalid format, the call will be routed to a previous version. If the previous version does not exist, a 404 page will be displayed.
Example: `application/vnd.paymentfusion.v3.0.0+json`
- **Content-Type:** `application/x-www-form-urlencoded`
- **Cache-Control:** `no-cache` Host: `tb-sandbox.paymentfusion.com`
- **Accept-Encoding:** `gzip, deflate`
- **Connection:** `keep-alive`

Body:

```
{
  "merchant_id": "012345",
  "amount": "10.00",
  "invoice": "string",
  "software": "string",
  "ip_address": "string",
  "clerk": "string",
  "billing_street": "string",
  "billing_city": "string",
  "billing_state": "string",
  "billing_zip": "string",
  "comments": "string",
  "description": "string",
  "command": "string",
  "force_duplicate": "boolean",
  "allow_partial_auth": "boolean",
  "zip_code": "string",
  "name_on_check": "string",
  "routing_number": "string",
  "account_number": "string",
  "check_number": "string",
  "ach_token": "67dfs67fds7df545dfs",
  "micr": "string",
  "drivers_license": "string",
  "state": "string",
  "ssn": "string",
  "check_type": "string",
  "check_account_type": "string",
  "email_address": "string",
  "phone_number": "string",
  "street_1": "string",
  "street_2": "string",
  "street_3": "string",
```



```
"city": "string",
"state_or_province_code": "string",
"postal_code": "string",
"country_code": "string",
"street_address": "string",
"remote_id": "string",
"client_id": "string",
"sec_code": "string",
"callback_url_1": "string",
"callback_url_2": "string",
"callback_url_3": "string"
}
```

Response Body:

```
{
  "amount": "string",
  "auth_amount": "string",
  "gateway_auth_code": "string",
  "card_type": "string",
  "created_at": "string",
  "gateway_identifier": "string",
  "gateway_reference_number": "string",
  "gateway_response": {},
  "gateway_response_message": "string",
  "gateway_result_code": "string",
  "gateway_result_text": "string",
  "merchant_id": "string",
  "mid": "string",
  "remote_id": "string",
  "tid": "string",
  "tip_amount": "string",
  "transaction_status": "string",
  "v": "string"
}
```

Request details:

URL: <https://tb-sandbox.paymentfusion.com/transactions/process/cash>

Verb: POST

Required Parameters:

- **merchant_id**= The merchant identifier that will be used to connect to the gateway.
- **amount**= The amount to refund, in USD up to 6 decimals that will be charged, its last 4 digits must be 0. (e.g. "1", "1.00", "1.01", "1.2", "1.230000").
- **invoice**= Number of the invoice.

Recommended Parameters:

- **remote_ID=** Used for keeping track of a 3rd party identifier alongside the transaction object. This is typically used by the ISV to assign its own identifier to the transaction for easy matching in case any network issues appear. This is not validated for uniqueness.

Headers:

- **Authorization:** Needs to include `Basic` word before Base64 encoded `api_id:api_token`. The `api_id` is the identifier of the organization created on TAP; size range - 20. The `api_token` is the unique token previously generated by TAP and provided securely to the organization; size range - 3
Example: `Basic ODA5BVgrNdZkZmbiFlJlTThkYTA2eG00MzA5dHh1bWZnZgfdZDE=`
- **Accept:** Specifies the requested API version. If this field is not specified or has an invalid format, the call will be routed to a previous version. If the previous version does not exist, a 404 page will be displayed.
Example: `application/vnd.paymentfusion.v3.0.0+json`
- **Content-Type:** `application/x-www-form-urlencoded`
- **Cache-Control:** `no-cache` Host: `tb-sandbox.paymentfusion.com`
- **Accept-Encoding:** `gzip, deflate`
- **Connection:** `keep-alive`

Body:

```
{
  "remote_id": "String",
  "merchant_id": "012345",
  "amount": "10.00",
  "invoice": "687sa56",
  "software": "string",
  "ip_address": "string",
  "clerk": "string",
  "billing_street": "string",
  "billing_city": "string",
  "billing_state": "string",
  "billing_zip": "string",
  "comments": "string",
  "description": "string",
  "command": "string",
  "tip_amount": "string",
  "force_duplicate": "boolean",
  "allow_partial_auth": "boolean",
  "zip_code": "string",
  "street_address": "string",
  "tax_amount": "string",
  "client_id": "string"
}
```

Response Body:

```
{
  "amount": "string",
  "auth_amount": "string",
}
```

```
"gateway_auth_code": "string",
"card_type": "string",
"created_at": "string",
"gateway_identifier": "string",
"gateway_reference_number": "string",
"gateway_response": {},
"gateway_response_message": "string",
"gateway_result_code": "string",
"gateway_result_text": "string",
"merchant_id": "string",
"mid": "string",
"remote_id": "string",
"tid": "string",
"tip_amount": "string",
"transaction_status": "string",
"v": "string"
}
```

Refund

Overview

1. Make a POST call to refund a credit card transaction. Request for a transaction to be cancelled. The request will be saved but the transaction may or may not be cancelled based on its current state.
2. Make a POST call to refund an ACH transaction. Request for a transaction to be cancelled. The request will be saved but the transaction may or may not be cancelled based on its current state.
3. Make a POST call to refund a cash transaction. Request for a transaction to be cancelled. The request will be saved but the transaction may or may not be cancelled based on its current state.

Request details:

URL: <https://tb-sandbox.paymentfusion.com/transactions/refund/card>

Verb: POST

Required Parameters:

- **ref_number**= The reference number of the transaction that will be refunded.
- **refund_amount**= The amount to refund, in USD up to 6 decimals that will be charged, its last 4 digits must be 0. (e.g. "1", "1.00", "1.01", "1.2", "1.230000").
- **merchant_id**= The merchant identifier that will be used to connect to the gateway.

Recommended Parameters:

- **remote_ID**= Used for keeping track of a 3rd party identifier alongside the transaction object. This is typically used by the ISV to assign its own identifier to the transaction for easy matching in case any network issues appear. This is not validated for uniqueness.

Headers:

- **Authorization:** Needs to include `Basic` word before Base64 encoded `api_id:api_token`. The `api_id` is the identifier of the organization created on TAP; size range - 20. The `api_token` is the unique token previously generated by TAP and provided securely to the organization; size range - 3
Example: `Basic ODA5BVgrNdZkZmbiFlJlTThkYTA2eG00MzA5dHh1bWZnZnZgfdZDE=`
- **Accept:** Specifies the requested API version. If this field is not specified or has an invalid format, the call will be routed to a previous version. If the previous version does not exist, a 404 page will be displayed.
Example: `application/vnd.paymentfusion.v3.0.0+json`

- **Content-Type:** application/x-www-form-urlencoded
- **Cache-Control:** no-cache Host: tb-sandbox.paymentfusion.com
- **Accept-Encoding:** gzip, deflate
- **Connection:** keep-alive

Body:

```
{
  "ref_number": "0123453",
  "refund_amount": "10.00",
  "merchant_id": "3784683742",
  "tax_amount": "",
  "remote_id": ""
}
```

Response Body:

```
{
  "amount": "string",
  "auth_amount": "string",
  "gateway_auth_code": "string",
  "card_type": "string",
  "created_at": "string",
  "gateway_identifier": "string",
  "gateway_reference_number": "string",
  "gateway_response": {},
  "gateway_response_message": "string",
  "gateway_result_code": "string",
  "gateway_result_text": "string",
  "merchant_id": "string",
  "mid": "string",
  "remote_id": "string",
  "tid": "string",
  "tip_amount": "string",
  "transaction_status": "string",
  "v": "string"
}
```

Request details:

URL: <https://tb-sandbox.paymentfusion.com/transactions/refund/ach>

Verb: POST

Required Parameters:

- **ref_number**= The reference number of the transaction that will be refunded.

- **refund_amount**= The amount to refund, in USD up to 6 decimals that will be charged, its last 4 digits must be 0. (e.g. "1", "1.00", "1.01", "1.2", "1.230000").
- **merchant_id**= The merchant identifier that will be used to connect to the gateway.
- **sec_code**= Optional value indicating processor SEC Code.

Recommended Parameters:

- **remote_ID**= Used for keeping track of a 3rd party identifier alongside the transaction object. This is typically used by the ISV to assign its own identifier to the transaction for easy matching in case any network issues appear. This is not validated for uniqueness.
- **callback_url_1**= One of the three URLs where Transaction Broker will POST to when a HPP request is completed. This eliminates the need for polling for the request's status. Only HTTPS URLs are allowed. The callback will retry if the host is unresponsive. The response received from the callback url must have the response code 2xx. Basic auth credentials may be added in to url ie. 'https://username:password@address.com' or as an url param 'https://address.com?token=secret'.

Headers:

- **Authorization:** Needs to include Basic word before Base64 encoded `api_id:api_token`. The `api_id` is the identifier of the organization created on TAP; size range - 20. The `api_token` is the unique token previously generated by TAP and provided securely to the organization; size range - 3
Example: `Basic ODA5BVgrNdZkZmbiFlJlTThkYTA2eG00MzA5dHh1bWZnZgfdZDE=`
- **Accept:** Specifies the requested API version. If this field is not specified or has an invalid format, the call will be routed to a previous version. If the previous version does not exist, a 404 page will be displayed.
Example: `application/vnd.paymentfusion.v3.0.0+json`
- **Content-Type:** `application/x-www-form-urlencoded`
- **Cache-Control:** `no-cache` Host: `tb-sandbox.paymentfusion.com`
- **Accept-Encoding:** `gzip, deflate`
- **Connection:** `keep-alive`

Body:

```
{
  "ref_number " : "346987492",
  "refund_amount " : "10.00",
  "merchant_id": "3842983",
  "remote_id": "string",
  "sec_code": "POP",
  "callback_url_1": "string",
  "callback_url_2": "string",
  "callback_url_3": "string"
}
```

Response Body:

```
{
  "amount": "string",
  "auth_amount": "string",
  "gateway_auth_code": "string",
  "card_type": "string",
  "created_at": "string",
  "gateway_identifier": "string",
  "gateway_reference_number": "string",
  "gateway_response": {},
}
```

```
"gateway_response_message": "string",
"gateway_result_code": "string",
"gateway_result_text": "string",
"merchant_id": "string",
"mid": "string",
"remote_id": "string",
"tid": "string",
"tip_amount": "string",
"transaction_status": "string",
"v": "string"
}
```

Request details:

URL: <https://tb-sandbox.paymentfusion.com/transactions/refund/cash>

Verb: POST

Required Parameters:

- **ref_number**= The reference number of the transaction that will be refunded.
- **refund_amount**= The amount to refund, in USD up to 6 decimals that will be charged, its last 4 digits must be 0. (e.g. "1", "1.00", "1.01", "1.2", "1.230000").
- **merchant_id**= The merchant identifier that will be used to connect to the gateway.

Recommended Parameters:

- **remote_ID**= Used for keeping track of a 3rd party identifier alongside the transaction object. This is typically used by the ISV to assign its own identifier to the transaction for easy matching in case any network issues appear. This is not validated for uniqueness.

Headers:

- **Authorization:** Needs to include `Basic` word before Base64 encoded `api_id:api_token`. The `api_id` is the identifier of the organization created on TAP; size range - 20. The `api_token` is the unique token previously generated by TAP and provided securely to the organization; size range - 3
Example: `Basic ODA5BVgrNdZkZmbiFlJlTThkYTA2eG00MzA5dHh1bWZnZgfdZDE=`
- **Accept:** Specifies the requested API version. If this field is not specified or has an invalid format, the call will be routed to a previous version. If the previous version does not exist, a 404 page will be displayed.
Example: `application/vnd.paymentfusion.v3.0.0+json`
- **Content-Type:** `application/x-www-form-urlencoded`
- **Cache-Control:** `no-cache` Host: `tb-sandbox.paymentfusion.com`
- **Accept-Encoding:** `gzip, deflate`
- **Connection:** `keep-alive`

Body:

```
{
  "ref_number " : "346987492",
  "refund_amount " : "10.00",
  "merchant_id": "3842983",
  "tax_amount": "string",
  "remote_id": "POP",
}
```

Response Body:

```
{
  "amount": "string",
  "auth_amount": "string",
  "gateway_auth_code": "string",
  "card_type": "string",
  "created_at": "string",
  "gateway_identifier": "string",
  "gateway_reference_number": "string",
  "gateway_response": {},
  "gateway_response_message": "string",
  "gateway_result_code": "string",
  "gateway_result_text": "string",
  "merchant_id": "string",
  "mid": "string",
  "remote_id": "string",
  "tid": "string",
  "tip_amount": "string",
  "transaction_status": "string",
  "v": "string"
}
```