

Tokenization Getting Started Guide

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Introduction

This document will describe how to complete a token for a credit card through the terminal.

Transactions

1. Make a POST call to create a transaction
2. Make a POST call to create a Hosted Payment Page

Request details:

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

Verb: POST

Required Parameters:

- **serial_number or client_id**= The serial number of the terminal. Use only serial_number or client_id, not both.
- **merchant_id**=The merchant identifier that will be used to connect to the gateway.
- **amount**= \$0.00
- **um_command**= save

Recommended Parameters:

- **callback_url_1**=One of the three URLs where Transaction Broker will POST to when a transaction is finalized by the terminal. Multiple callbacks may occur as new information is updated. This eliminates the need for polling for the transaction'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'.
- **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:

```
{
  "confirm_amount": false,
  "serial_number": "string",
  "client_id": "string",
  "amount": "string",
  "invoice": "string",
  "um_command": "string",
  "merchant_id": "string",
  "user_name": "string",
  "customer_name": "string",
  "software_name": "string",
  "ip_address": "string",
  "clerk_number": "string",
  "billing_street": "string",
  "billing_city": "string",
  "billing_state": "string",
  "billing_zip": "string",
  "comments": "string",
  "description": "string",
  "return_card_data": false,
  "save_card": false,
  "tip_amount": "string",
  "tip_method": "string",
  "allow_partial_auth": false,
  "callback_url_1": "string",
  "callback_url_2": "string",
  "callback_url_3": "string",
  "terminal_text": "string",
  "suppress_signature": false,
  "remote_id": "string",
  "receipt_ref_num": 0,
  "receipt_option": "string",
  "prompt_for_zip_code": false,
  "street_address": "string",
  "zip_code": "string",
  "healthcare": {
    "iias_verified": "string",
    "healthcare_amount": "string",
    "prescription_amount": "string",
    "copay_amount": "string",
    "vision_amount": "string",
    "clinic_other_amount": "string",
    "dental_amount": "string",
    "transit_amount": "string",
    "cumulative_amount": "string"
  }
}
```

Response Body:

```
{
  "id": "string",
  "v": "string"
}
```

Use the newly generated transaction to have a patient enter in their information and store the token response.

Callback Response:

```
{
  "id": "",
  "type": "",
  "version": "",
  "data": {
    "id": ,
    "amount": "",
    "serial_number": "",
    "client_id": null,
    "invoice": "",
    "ip_address": null,
    "user_name": null,
    "customer_name": null,
    "software_name": null,
    "clerk_number": null,
    "transaction_status": "",
    "credit_card_token": "",
    "card_type": "",
    "card_expiration_date": "",
    "masked_card_number": "",
    "um_command": "",
    "created_at": "",
    "tip_amount": "",
    "tip_method": "",
    "cancel_requested": null,
    "cancel_requested_at": null,
    "gateway_identifier": "",
    "gateway_response": {
      "CardDetails": {
        "AuthorizedAmount": 0,
        "AuthorizationCode": "",
        "EntryMode": "",
        "CardData": {
          "CardNumber": "",
          "ExpirationDate": "",
          "NameOnCard": ""
        }
      }
    }
  }
}
```

```
    },
    "BINData": {
      "BIN": ,
      "CardBrand": "",
      "IssuingOrg": "",
      "CardType": "",
      "CardCategory": "",
      "IssuingCountry": "",
      "IssuingCountryCodeA2": "",
      "IssuingCountryCodeA3": "",
      "IssuingCountryNumber": ,
      "IssuingPhone": "",
      "IssuingWebsite": "",
      "PanLength": "",
      "IssuedEntity": "",
      "IsRegulated": "",
      "IsCommercial": false,
      "IsHealthcare": false
    },
    "CardValidationData": {
      "AVSResponse": "0",
      "CVResponse": "U",
      "AVSResponseText": "",
      "CVResultText": "",
      "StreetMatchText": "0",
      "ZipMatchText": "0"
    }
  },
  "TransactionId": ,
  "TransactionType": "",
  "Token": "",
  "MerchantKey": ,
  "TransactionIpAddress": "",
  "HostCode": "",
  "ResponseMessage": "",
  "ResultCode": 0,
  "ResultText": "",
  "InvoiceData": {
    "InvoiceNumber": "",
    "TotalAmount": 0.00,
    "TipAmount": 0,
    "ShippingAmount": 0,
    "SalesTaxAmount": 0,
    "DutyAmount": 0,
    "ConvenienceAmount": 0,
    "SurchargeAmount": 0,
    "CashBackAmount": 0
  },
  "CustomFields": [
    {
```

```
        "Name": "",
        "Value": ""
    },
    {
        "Name": "",
        "Value": ""
    }
],
"Timestamp": "",
"UserName": "",
"ResellerKey": ,
"PaymentType": "",
"Processor": "",
"HostReferenceNumber": ""
},
"gateway_response_message": "",
"gateway_result_code": "",
"gateway_result_text": "",
"gateway_reference_number": "",
"gateway_auth_code": "",
"return_card_data": "",
"save_card": "",
"merchant_id": "",
"billing_street": null,
"billing_city": null,
"billing_zip": null,
"billing_state": null,
"comments": null,
"description": null,
"recurring": "false",
"schedule": null,
"num_left": null,
"start_date": null,
"bill_amount": "",
"card_holder": "",
"gateway_ip": "",
"signature": "",
"auth_amount": "",
"remaining_balance": null,
"emv_data": {
    "receipt": "",
    "customer_verification_method": "",
    "tag_data": {
        "Tag ": "",
        "Tag 4F": "",
        "Tag 50": "",
        "Tag 5F20": "",
        "Tag 5F2A": "",
        "Tag 5F34": "",
        "Tag 82": "",
```

```
        "Tag 84": "",
        "Tag 8A": "",
        "Tag 95": "",
        "Tag 9A": "",
        "Tag 9B": "",
        "Tag 9C": "",
        "Tag 9F02": "",
        "Tag 9F06": "",
        "Tag 9F07": "",
        "Tag 9F08": "",
        "Tag 9F09": "",
        "Tag 9F0D": "",
        "Tag 9F0E": "",
        "Tag 9F0F": "",
        "Tag 9F10": "",
        "Tag 9F12": "",
        "Tag 9F1A": "",
        "Tag 9F21": "",
        "Tag 9F26": "",
        "Tag 9F27": "",
        "Tag 9F33": "",
        "Tag 9F34": "",
        "Tag 9F35": "",
        "Tag 9F36": "",
        "Tag 9F37": "",
        "Tag 9F39": "",
        "Tag 9F40": ""
    }
},
"remote_id": null,
"street_address": null,
"zip_code": null,
"input_method": "",
"bin_data": {
    "bin": ,
    "card_brand": "",
    "issuing_org": "",
    "card_type": "",
    "card_category": "",
    "issuing_country": "",
    "issuing_country_code_a2": "",
    "issuing_country_code_a3": "",
    "issuing_country_number": ,
    "issuing_phone": "",
    "issuing_website": "",
    "pan_length": "",
    "issued_entity": "",
    "is_regulated": "",
    "is_commercial": false,
    "is_healthcare": false
}
```

```
    },
    "mid": "",
    "tid": ""
  },
  "hash": ""
}
```

Request details:

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

Verb: POST

Required Parameters:

- **id**= The HPP identifier for the transaction
- **transaction_type**= SaveOnly
- **amount**= \$0.00

Recommended Parameters:

- **callback_url_1**=One of the three URLs where Transaction Broker will POST to when a transaction is finalized by the terminal. Multiple callbacks may occur as new information is updated. This eliminates the need for polling for the transaction'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'.
- **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:

```
{
  "id": "string",
  "transaction_type": "Sale",
  "amount": 0,
  "invoice_number": "string",
  "pn_ref": "string",
  "echo_fields": true,
  "approved_redirect": "string",
  "declined_redirect": "string",
  "send_customer_receipt": true,
  "receipt_template": "string",
}
```



```
"customer_email": "string",
"test_mode": true,
"force_duplicate": true,
"amount_is_editable": true,
"non_taxable": true,
"tax_amount": 0,
"shipping_amount": 0,
"discount_amount": 0,
"tip_amount": 0,
"customer_name": "string",
"phone_number": "string",
"billing_first_name": "string",
"billing_last_name": "string",
"billing_address_1": "string",
"billing_address_2": "string",
"billing_city": "string",
"billing_state": "string",
"billing_zip": "string",
"shipping_is_billing": true,
"shipping_first_name": "string",
"shipping_last_name": "string",
"shipping_address_1": "string",
"shipping_address_2": "string",
"shipping_city": "string",
"shipping_state": "string",
"shipping_zip": "string",
"comment": "string",
"description": "string",
"clerk": "string",
"remote_id": "string",
"post_json_on_redirect": true,
"merchant_trans_id": "string",
"expiration_in_days": 0,
"sec_code": "string",
"short_url": true,
"custom_fields": "string",
"callback_url_1": "string",
"callback_url_2": "string",
"callback_url_3": "string"
}
```

Response Body:

```
{
  "hpp": "string",
  "v": "string"
}
```

Use the newly generated Hosted Payment Page to have a patient enter in their information and store the token response.

Callback Response:

```
{
  "id": 227,
  "type": "hpp",
  "version": "3.0.0",
  "data": {
    "amount": "string",
    "invoice_number": "string",
    "ip_address": "string",
    "user_name": "string",
    "transaction_status": "string",
    "token": "string",
    "card_type": "string",
    "card_expiration_date": "string",
    "masked_card_number": "string",
    "check_account_type": "string",
    "check_account_number": "string",
    "transaction_type": "Sale",
    "created_at": "string",
    "tip_amount": 0,
    "gateway_identifier": "string",
    "gateway_reference_number": "string",
    "gateway_auth_code": "string",
    "merchant_id": "string",
    "billing_address_1": "string",
    "billing_address_2": "string",
    "billing_city": "string",
    "billing_zip": "string",
    "billing_state": "string",
    "comment": "string",
    "description": "string",
    "card_holder": "string",
    "auth_amount": "string",
    "remote_id": 0,
    "input_method": "string",
    "bin_data": {
      "bin": 0,
      "card_brand": "string",
      "issuing_org": "string",

```

```
"card_type": "string",
"card_category": "string",
"issuing_country": "string",
"issuing_country_code_a2": "string",
"issuing_country_code_a3": "string",
"issuing_country_number": 0,
"issuing_phone": "string",
"issuing_website": "string",
"pan_length": "string",
"issued_entity": "string",
"is_regulated": "string",
"is_commercial": false,
"is_healthcare": "true"
},
"custom_fields": "string"
},
"hash":
"a39109af119ee4b245b57574d54e5cbce49e01dbd5e39b9c47cba703c5b7d09a"
}
```