Zapper API Documentation 20250909  
  
  
Hi Andre,

As discussed, please see test details below. I've also included some postman examples of the API calls.

Org ID: 810c1540-6de0-11f0-9286-4f0cdcb898f5

apiToken: eb22884a-bc62-4307-ac21-ac9f2ac140f2

x-api-key: 8h8DDBvlaPoYgefHwqeG3DNZaO6vorxWPsCDtvd0

# Authentication

### Server to Server

A partner may integrate from their servers to Zapper' on behalf of their clients. This is regarded a server to server integration and has a slightly different authentication mechanism. When a partner is on-boarded, an organisation is created within Zapper to house all of its data. Along with it a token is created. The combination of the partners' organisation id and their token is used to authenticate with Zapper and receive and identity token which can be used in subsequent requests.

{% hint style="warning" %}

Tokens are only valid for 15 minutes.&#x20;

{% endhint %}

{% hint style="info" %}

The token can be decoded where the exp will represent the expiry value.

The expiry value is represented as the number of seconds since the epoch.

{% endhint %}

## Service Account Login

<mark style="color:green;">`POST`</mark> `https://api.zapper.com/v1/auth/service/login`

This method produces an identity token used in subsequent requests to authenticate the caller

#### Headers

| Name | Type | Description |

| --------- | ------ | -------------- |

| x-api-key | string | API access key |

#### Request Body

| Name | Type | Description |

| -------------- | ------ | ----------------------- |

| apiToken | string | The partners API token |

| organisationId | string | The partners identifier |

{% tabs %}

{% tab title="200 The identity token" %}

```

identity-token-string

```

{% endtab %}

{% endtabs %}

### Client to Server

A partner may choose to have their customers speak directly with Zapper's APIs. This is regarded as a client to server integration. The customer must have onboarded with Zappers APIs in order to create a customer identity. Upon creation, they will be able to login in and receive an identity token. This is similar to the server to server integration, but the token contains customer level information and access.&#x20;

## Register a Customer

<mark style="color:green;">`POST`</mark> `https://api.zapper.com/v1/auth/customers/register`

This registers a user account as a customer of the organisation

#### Headers

| Name | Type | Description |

| ------------- | ------ | ------------------------------------------------------------------------------------------------- |

| x-api-key | string | API access key |

| Authorization | string | <p>Bearer &#x3C;Identity Token><br>The identity token received from the service account login</p> |

#### Request Body

| Name | Type | Description |

| ------ | ------ | ------------------ |

| userId | string | The users identity |

{% tabs %}

{% tab title="200 " %}

```

```

{% endtab %}

{% endtabs %}

## Customer Login

<mark style="color:green;">`POST`</mark> `https://api.zapper.com/v1/auth/customers/login`

This method will log the user into the organisation with the appropriate permissions to interact with the platform

#### Headers

| Name | Type | Description |

| ------------- | ------ | -------------------------------------------------------------------------------------------------- |

| x-api-key | string | API access key |

| Authorization | string | <p>Bearer &#x3C;Identity Token><br>The identity token received from the service account login.</p> |

#### Request Body

| Name | Type | Description |

| -------- | ------ | ----------------------- |

| email | string | The users email address |

| password | string | The users password |

{% tabs %}

{% tab title="200 " %}

```

```

{% endtab %}

{% endtabs %}  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
---

description: >-

This endpoint allows for the decoding of a Zapper-supported QR code to

retrieve an invoice.

---

# Decode

## Identifying Zapper-supported QR Codes

Zapper-supported QR codes include Zapper's proprietary QR codes, as well as various third-party provider codes:

\* [Crest Parking and Access Control](https://www.crestpac.co.za/revenue-parking-systems)

\* [HUB Parking Technology](https://www.hubparking.co.za/)

\* [Netcash](https://netcash.co.za/)

\* [Pay@](https://payat.co.za/)

\* [Servest](https://www.servest.co.za/servest-parking-management-and-technology-solutions/)

\* [SKIDATA](https://www.skidata.com/en-za/parking/)

\* [Transaction Junction](https://transactionjunction.co.za/)

\* [Yoyo](https://yoyogroup.com/)

In order to determine if a QR code is supported by Zapper, it should be sent for decoding so that the value can be verified against the regex below:

```

^((.\*zapper\.com.\*)|(.\*\.wigroup\..\*)|(.{2}\/.{4}\/.{20})|(.\*payat\.io.\*)|(.\*(paynow\.netcash|paynow\.sagepay)\.co\.za.\*)|(SK\-\d{1,}\-\d{23})|(\d{20})|(.\*\d+\.zap\.pe(.\*\n?)\*)|(.\*transactionjunction\.co\.za.\*)|(CRSTPC-\d+-\d+-\d+-\d+-\d+))$

```

{% hint style="info" %}

The code should be trimmed before performing the regex match.

{% endhint %}

## Decode Zapper Code

<mark style="color:blue;">`GET`</mark> `https://api.zapper.com/v1/codes/{code}`

Retrieve an existing invoice for the provided Zapper supported code.

#### Path Parameters

| Name | Type | Description |

| ---- | ------ | ------------------------ |

| code | string | The base64 encoded value |

#### Headers

| Name | Type | Description |

| ------------- | ------ | -------------------------------------------------------------------------------------------------- |

| Authorization | String | <p>Bearer &#x3C;Identity Token> <br>The identity token received from the service account login</p> |

| x-api-key | string | Authentication key |

{% tabs %}

{% tab title="200 Return an existing invoice" %}

```javascript

{

"merchant": {

"merchantReference": "merchant\_reference",

"merchantName": "Merchant",

"currencyISO": "ZAR",

"currencySymbol": "R",

"features": {

"amount": {

"editable": true

},

"orderReference": {

"label": "Reference",

"editable": false,

"required": false

},

"tip": {

"enabled": false

}

}

},

"invoice": {

"siteReference": "site\_reference",

"currencyISOCode": "ZAR",

"amount": 1000,

"lineItems": [

{

"name": "item1",

"productCode": "it1",

"sku": "item1",

"unitPrice": 500,

"categories": [],

"quantity": 0

},

{

"name": "item2",

"productCode": "it2",

"sku": "item2",

"unitPrice": 500,

"categories": [],

"quantity": 500

}

],

"createdUTCDate": "0001-01-01T00:00:00.000Z",

"origin": "pos",

"originReference": "pos-1",

"invoiceReference": "00000000-0000-0000-0000-000000000000",

"orderReference": "00000000-0000-0000-0000-000000000000",

"state": "open"

}

}

```

{% endtab %}

{% tab title="404 " %}

```javascript

{

"message": "Invalid code"

}

```

{% endtab %}

{% endtabs %}

## Response

{% hint style="info" %}

All fields are required unless indicated as \_optional.\_

{% endhint %}

| Field | Type | Description |

| -------- | ------ | --------------------------------------- |

| merchant | object | The [merchant](#merchant) information. |

| invoice | object | The details of the [invoice](#invoice). |

### \*\*Merchant\*\*

| Field | Type | Description |

| ----------------- | ------ | ------------------------------------------------------------------------------------------------------------ |

| merchantReference | string | The merchant's unique reference. |

| merchantName | string | The name of the merchant. |

| currencyISOCode | string | The merchant's three-character [ISO 4217](https://www.iso.org/iso-4217-currency-codes.html) currency symbol. |

| currencySymbol | string | The currency display symbol. |

| features | object | Payment [feature](#features) configuration. |

### \*\*Invoice\*\*

| Field | Type | Description |

| ---------------- | -------------------------------------- | -------------------------------------------------------------------------------------------------------- |

| siteReference | string | The identifier of the point of sale till. |

| currencyISOCode | string | The invoiced three-character [ISO 4217](https://www.iso.org/iso-4217-currency-codes.html) currency code. |

| amount | number | The invoiced amount in cents. |

| lineItems | <p>collection<br><em>optional</em></p> | A list of [line items](#line-items). |

| createdUTCDate | string | <p>The date of the invoice creation.</p><p><em>format: yyyy-MM-ddTHH:mm:ss.fffZ.</em></p> |

| origin | <p>string</p><p><em>optional</em></p> | The provider of the invoice. |

| originReference | <p>string</p><p><em>optional</em></p> | A unique reference code from the provider. |

| invoiceReference | <p>string</p><p><em>optional</em></p> | A unique reference for the invoice. |

| orderReference | <p>string</p><p><em>optional</em></p> | A unique reference for the invoice used during payment. |

| state | <p>string</p><p><em>optional</em></p> | <p>The current state of the invoice.</p><p>Either "open" or "closed"</p> |

### \*\*Line Items\*\*

{% hint style="info" %}

Product code or stock keeping unit (SKU) is required.

{% endhint %}

| Field | Type | Description |

| ----------- | -------------------------------------- | --------------------------------------------------- |

| name | <p>string<br><em>optional</em></p> | The friendly name of the line item. |

| productCode | <p>string<br><em>conditional</em></p> | The product identifier. |

| sku | <p>string<br><em>conditional</em></p> | The stock keeping unit code. |

| unitPrice | string | The price for a single unit in cents. |

| categories | <p>collection<br><em>optional</em></p> | A list of names or codes used to group items. |

| quantity | <p>number<br><em>optional</em></p> | The number of items, defaults to 1 if not supplied. |

### \*\*Features\*\*

| Field | Type | Description |

| -------------- | ---------------------------------- | ------------------------------------------------------------------ |

| amount | <p>object<br><em>optional</em></p> | Feature configuration for the [\_amount\_ ](#amount)field. |

| orderReference | <p>object<br><em>optional</em></p> | Feature configuration for the [\_orderReference\_](#orderreference). |

| tip | <p>object<br><em>optional</em></p> | Feature configuration for [\_tip\_](#tip). |

### \*\*Amount\*\*

| Field | Type | Description |

| -------- | ---- | ------------------------- |

| editable | bool | Can the amount be edited. |

### \*\*OrderReference\*\*

| Field | Type | Description |

| -------- | ------ | ------------------------------------------------------------------------- |

| label | string | Custom label set by the merchant. |

| editable | bool | Indicates if the reference is editable. |

| required | bool | Indicates if it is mandatory to send the \_orderReference\_ during payment. |

### \*\*Tip\*\*

| Field | Type | Description |

| ------- | ---- | ----------------------------------- |

| enabled | bool | Indicates if a tip can be captured. |  
  
  
  
---

description: >-

This endpoint allows for the decoding of a Zapper-supported QR code to

retrieve an invoice.

---

# Decode

## Identifying Zapper-supported QR Codes

Zapper-supported QR codes include Zapper's proprietary QR codes, as well as various third-party provider codes:

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\* [Netcash](https://netcash.co.za/)

\* [Pay@](https://payat.co.za/)

\* [Servest](https://www.servest.co.za/servest-parking-management-and-technology-solutions/)

\* [SKIDATA](https://www.skidata.com/en-za/parking/)

\* [Transaction Junction](https://transactionjunction.co.za/)

\* [Yoyo](https://yoyogroup.com/)

In order to determine if a QR code is supported by Zapper, it should be sent for decoding so that the value can be verified against the regex below:

```

^((.\*zapper\.com.\*)|(.\*\.wigroup\..\*)|(.{2}\/.{4}\/.{20})|(.\*payat\.io.\*)|(.\*(paynow\.netcash|paynow\.sagepay)\.co\.za.\*)|(SK\-\d{1,}\-\d{23})|(\d{20})|(.\*\d+\.zap\.pe(.\*\n?)\*)|(.\*transactionjunction\.co\.za.\*)|(CRSTPC-\d+-\d+-\d+-\d+-\d+))$

```

{% hint style="info" %}

The code should be trimmed before performing the regex match.

{% endhint %}

## Decode Zapper Code

<mark style="color:blue;">`GET`</mark> `https://api.zapper.com/v1/codes/{code}`

Retrieve an existing invoice for the provided Zapper supported code.

#### Path Parameters

| Name | Type | Description |

| ---- | ------ | ------------------------ |

| code | string | The base64 encoded value |

#### Headers

| Name | Type | Description |

| ------------- | ------ | -------------------------------------------------------------------------------------------------- |

| Authorization | String | <p>Bearer &#x3C;Identity Token> <br>The identity token received from the service account login</p> |

| x-api-key | string | Authentication key |

{% tabs %}

{% tab title="200 Return an existing invoice" %}

```javascript

{

"merchant": {

"merchantReference": "merchant\_reference",

"merchantName": "Merchant",

"currencyISO": "ZAR",

"currencySymbol": "R",

"features": {

"amount": {

"editable": true

},

"orderReference": {

"label": "Reference",

"editable": false,

"required": false

},

"tip": {

"enabled": false

}

}

},

"invoice": {

"siteReference": "site\_reference",

"currencyISOCode": "ZAR",

"amount": 1000,

"lineItems": [

{

"name": "item1",

"productCode": "it1",

"sku": "item1",

"unitPrice": 500,

"categories": [],

"quantity": 0

},

{

"name": "item2",

"productCode": "it2",

"sku": "item2",

"unitPrice": 500,

"categories": [],

"quantity": 500

}

],

"createdUTCDate": "0001-01-01T00:00:00.000Z",

"origin": "pos",

"originReference": "pos-1",

"invoiceReference": "00000000-0000-0000-0000-000000000000",

"orderReference": "00000000-0000-0000-0000-000000000000",

"state": "open"

}

}

```

{% endtab %}

{% tab title="404 " %}

```javascript

{

"message": "Invalid code"

}

```

{% endtab %}

{% endtabs %}

## Response

{% hint style="info" %}

All fields are required unless indicated as \_optional.\_

{% endhint %}

| Field | Type | Description |

| -------- | ------ | --------------------------------------- |

| merchant | object | The [merchant](#merchant) information. |

| invoice | object | The details of the [invoice](#invoice). |

### \*\*Merchant\*\*

| Field | Type | Description |

| ----------------- | ------ | ------------------------------------------------------------------------------------------------------------ |

| merchantReference | string | The merchant's unique reference. |

| merchantName | string | The name of the merchant. |

| currencyISOCode | string | The merchant's three-character [ISO 4217](https://www.iso.org/iso-4217-currency-codes.html) currency symbol. |

| currencySymbol | string | The currency display symbol. |

| features | object | Payment [feature](#features) configuration. |

### \*\*Invoice\*\*

| Field | Type | Description |

| ---------------- | -------------------------------------- | -------------------------------------------------------------------------------------------------------- |

| siteReference | string | The identifier of the point of sale till. |

| currencyISOCode | string | The invoiced three-character [ISO 4217](https://www.iso.org/iso-4217-currency-codes.html) currency code. |

| amount | number | The invoiced amount in cents. |

| lineItems | <p>collection<br><em>optional</em></p> | A list of [line items](#line-items). |

| createdUTCDate | string | <p>The date of the invoice creation.</p><p><em>format: yyyy-MM-ddTHH:mm:ss.fffZ.</em></p> |

| origin | <p>string</p><p><em>optional</em></p> | The provider of the invoice. |

| originReference | <p>string</p><p><em>optional</em></p> | A unique reference code from the provider. |

| invoiceReference | <p>string</p><p><em>optional</em></p> | A unique reference for the invoice. |

| orderReference | <p>string</p><p><em>optional</em></p> | A unique reference for the invoice used during payment. |

| state | <p>string</p><p><em>optional</em></p> | <p>The current state of the invoice.</p><p>Either "open" or "closed"</p> |

### \*\*Line Items\*\*

{% hint style="info" %}

Product code or stock keeping unit (SKU) is required.

{% endhint %}

| Field | Type | Description |

| ----------- | -------------------------------------- | --------------------------------------------------- |

| name | <p>string<br><em>optional</em></p> | The friendly name of the line item. |

| productCode | <p>string<br><em>conditional</em></p> | The product identifier. |

| sku | <p>string<br><em>conditional</em></p> | The stock keeping unit code. |

| unitPrice | string | The price for a single unit in cents. |

| categories | <p>collection<br><em>optional</em></p> | A list of names or codes used to group items. |

| quantity | <p>number<br><em>optional</em></p> | The number of items, defaults to 1 if not supplied. |

### \*\*Features\*\*

| Field | Type | Description |

| -------------- | ---------------------------------- | ------------------------------------------------------------------ |

| amount | <p>object<br><em>optional</em></p> | Feature configuration for the [\_amount\_ ](#amount)field. |

| orderReference | <p>object<br><em>optional</em></p> | Feature configuration for the [\_orderReference\_](#orderreference). |

| tip | <p>object<br><em>optional</em></p> | Feature configuration for [\_tip\_](#tip). |

### \*\*Amount\*\*

| Field | Type | Description |

| -------- | ---- | ------------------------- |

| editable | bool | Can the amount be edited. |

### \*\*OrderReference\*\*

| Field | Type | Description |

| -------- | ------ | ------------------------------------------------------------------------- |

| label | string | Custom label set by the merchant. |

| editable | bool | Indicates if the reference is editable. |

| required | bool | Indicates if it is mandatory to send the \_orderReference\_ during payment. |

### \*\*Tip\*\*

| Field | Type | Description |

| ------- | ---- | ----------------------------------- |

| enabled | bool | Indicates if a tip can be captured. |  
  
  
  
---

description: Add and remove cards to be used for Payments with Zapper.

---

# Card

## Register Card

<mark style="color:green;">`POST`</mark> `https://api.zapper.com/v1/cards`

Submit card information to be stored and receive a unique token to be used in future payments

#### Headers

| Name | Type | Description |

| ------------- | ------ | ------------------------------------------------------------------------------------------------- |

| Authorization | String | <p>Bearer &#x3C;Identity Token><br>The identity token received from the service account login</p> |

| x-api-key | string | Authentication key |

#### Request Body

| Name | Type | Description |

| ----------- | ------ | ----------------------------------- |

| cardNumber | string | Number on the front of the card. |

| holderName | string | Name on the card. |

| expiryMonth | number | Month that the card expires (1-12). |

| expiryYear | number | Year that the card expires (CCYY). |

{% tabs %}

{% tab title="201 Successfully stored and tokenised card information." %}

```javascript

{

"token": "00000000-0000-0000-0000-000000000000",

"cardMask": "400000xxx0002",

"holderName": "Card Holder",

"expiryMonth": 9,

"expiryYear": 2030

}

```

{% endtab %}

{% endtabs %}

### Request Example

```javascript

{

"cardNumber": "4000000000000002",

"holderName": "Card Holder",

"expiryMonth": 9,

"expiryYear": 2030

}

```

### Response

| Field | Type | Description |

| ----------- | ------ | ----------------------------------------------------------- |

| token | string | Unique representation of the card. |

| cardMask | string | User friendly string for the card. |

| holderName | string | Card holder name. |

| expiryMonth | number | The month the card expires. |

| expiryYear | number | <p>The year the card expires. <br>F<em>ormat: CCYY</em></p> |

| brand | string | The card issuer brand. eg. Mastercard, Visa |

## Remove Card

<mark style="color:red;">`DELETE`</mark> `https://api.zapper.com/v1/cards/{token}`

Remove the card matching the provided token. This action is irreversible.

#### Path Parameters

| Name | Type | Description |

| ----- | ------ | ------------------------------------------- |

| token | string | Token for the payment method to be removed. |

#### Headers

| Name | Type | Description |

| ------------- | ------ | ------------------------------------------------------------------------------------------------- |

| Authorization | String | <p>Bearer &#x3C;Identity Token><br>The identity token received from the service account login</p> |

| x-api-key | string | Authentication key |

{% tabs %}

{% tab title="200 Card successfully removed from the Zapper platform." %}

```

```

{% endtab %}

{% endtabs %}  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
# Processing

{% hint style="warning" %}

Please note the parameters required when Zapper is processing the payment, versus when a third party processor is processing the payment.

{% endhint %}

## Process Payment

<mark style="color:green;">`POST`</mark> `https://api.zapper.com/v1/payments`

Make a new payment against the provided code on behalf of the customer.

#### Headers

| Name | Type | Description |

| ------------- | ------ | ------------------------------------------------------------------------------------------------- |

| Authorization | String | <p>Bearer &#x3C;Identity Token><br>The identity token received from the service account login</p> |

| x-api-key | string | Authentication Key |

#### Request Body

| Name | Type | Description |

| --------------- | ------ | -------------------------------------------------------------------------------------------------------------------------------- |

| reference | string | Unique reference for the payment. |

| currencyISOCode | string | <p>Three character <strong>ISO 4217</strong> currency code.<br><em>Required if non-zapper processed payment.</em></p> |

| code | string | Base64 encoded Zapper supported code value. |

| amount | number | Amount to be paid in cents, \*\*excluding\*\* tip amount. |

| tipAmount | number | Tip amount in cents. |

| customer | object | Details of the \*\*customer\*\* making the payment. |

| paymentUTCDate | string | <p>Date of the payment request.<br>Format: yyyy-MM-ddTHH:mm:ss.fffZ</p> |

| paymentMethod | object | \*\*Payment Method\*\* for the transaction. |

| orderReference | string | Unique reference for the invoice used during payment. \_Mandatory if \*\*orderReference\*\* was \*\*required\*\* in \*\*decode\*\* response.\_ |

{% tabs %}

{% tab title="200 Payment status" %}

```javascript

{

"reference": "00000000-0000-0000-0000-000000000000",

"invoiceReference": "00000000-0000-0000-0000-000000000000",

"invoiceExternalReference": "00000000-0000-0000-0000-000000000000",

"merchantName": "SyliviaBiller548655",

"currencyISOCode": "ZAR",

"invoicedAmount": 1000,

"paymentReference": "XGKGE3020Q2E8Y4NRD",

"paymentUTCDate": "2020-10-06T00:00:00.0Z",

"paymentMethodType": "Card",

"paymentMethodDescription": "xxxx0002",

"status": "success",

"verificationUrl": null,

"tipAmount": 200,

"processedAmount": 1200,

"customer": {

"id": "00000000-0000-0000-0000-000000000000"

},

"siteReference": "1",

"errors": null

}

```

{% endtab %}

{% tab title="302 " %}

```

```

{% endtab %}

{% tab title="401 Identity token invalid." %}

```

```

{% endtab %}

{% tab title="500 Error on the server." %}

```

```

{% endtab %}

{% endtabs %}

### \*\*Customer\*\*

| Field | Type | Description |

| -------------- | ------------------------------------- | ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------- |

| id | string | Unique identifier for the customer. |

| countryISOCode | <p>string</p><p><em>optional</em></p> | <p>Customers country. When information is not provided the customer will be created with a default country of <em>ZA.</em></p><p>Format: <a href="https://en.wikipedia.org/wiki/ISO\_3166-1\_alpha-2">ISO 3166-1 Alpha-2 </a></p> |

| firstName | string | Customer first name. |

| lastName | string | Customer last name. |

| msisdn | <p>string</p><p><em>optional</em></p> | Customer phone number. |

| email | <p>string</p><p><em>optional</em></p> | Customer email address. |

To service our merchants it is recommended that the customer firstName and lastName fields are populated.

These fields assist in allocating and reconciling partner consumer app payments processed over our network.

{% hint style="info" %}

These details \*\*will not\*\* and \*\*cannot\*\* be used for direct marketing given we don’t have the partner consumer app MSISDN.

{% endhint %}

### \*\*Payment Method\*\*

| Field | Type | Description |

| -------- | ---------------------------------------- | --------------------------------------------- |

| card | <p>object</p><p><em>conditional</em></p> | [Card ](../payment-methods/card#card)details. |

| external | <p>object</p><p><em>conditional</em></p> | Third party payment details. |

{% hint style="info" %}

Only one of \*\*card\*\* or \*\*external\*\* can be used. When using a card, Zapper will process the payment from the customer's card.

{% endhint %}

{% hint style="warning" %}

Either CVV or SecureData is required.

{% endhint %}

### Card

#### Card number

| Field | Type | Description |

| ----------- | ---------------------------------------- | ------------------------------------------------------- |

| cardNumber | string | Number on the front of the card. |

| cvv | <p>string</p><p><em>conditional</em></p> | Security code at the back of the card. |

| holderName | string | Name on the card. |

| expiryMonth | number | Month the card expires (1-12). |

| expiryYear | number | Year the card expires (CCYY). |

| secureData | <p>object</p><p><em>conditional</em></p> | Authenticate [security transaction data](#secure-data). |

#### \*\*Tokenised card\*\*

| Field | Type | Description |

| ---------- | ---------------------------------------- | ------------------------------------------------------- |

| token | string | The token that represents the card. |

| cvv | <p>string</p><p><em>conditional</em></p> | Security code at the back of the card. |

| secureData | <p>object</p><p><em>conditional</em></p> | Authenticate [security transaction data](#secure-data). |

#### \*\*Secure Data\*\*

<table data-header-hidden><thead><tr><th width="302.3333333333333">Field</th><th width="119">Type</th><th>Description</th></tr></thead><tbody><tr><td>Field</td><td>Type</td><td>Description</td></tr><tr><td>enrolled</td><td>string</td><td>The <a href="#enrolled">enrolled status</a>.</td></tr><tr><td>paresStatus</td><td>string</td><td>The <a href="#pares-status">PARes status</a>.</td></tr><tr><td>eci</td><td>string</td><td>The relevant ECI indicator.</td></tr><tr><td>cavv</td><td>string</td><td>The Base64 encoded cardholder authentication verification value.</td></tr><tr><td>xid</td><td>string</td><td>The Base64 encoded transaction identifier.</td></tr><tr><td>secure3DVersion</td><td>string</td><td>The 3D Secure version e.g. "2.1.0"</td></tr><tr><td>secure3DDirectoryServerTransId</td><td>string</td><td>Unique identifier for the authenticated transaction assigned by the Directory Server</td></tr><tr><td>secure3DAuthenticationType</td><td>string</td><td><strong>Possible values( not limited)</strong> to "01", "02", "03" which correspond to static, dynamic or out-of-band respectively. Must be as generated on completion of the authentication process. indicates the method of authentication used</td></tr></tbody></table>

#### Enrolled

| Value | Description |

| ----- | ----------- |

| Y | Yes |

| N | No |

| U | Unenrolled |

#### PARes Status

| Value | Description |

| ----- | ----------- |

| Y | Yes |

| N | No |

| U | Unenrolled |

| A | Anenrolled |

### External

For non-Zapper processed payments, the \*\*external\*\* payment method type is be used.

| Field | Type | Description |

| --------- | ------ | --------------------------------------------------------------------------------------------- |

| reference | string | Third party payment reference. |

| status | string | [Status ](../payment-details#status)of the completed payment. The string is case insensitive. |

#### External Payment Status

| Value | Description |

| ------- | ----------------------------- |

| success | Successful payment processed. |

| failed | Failed payment processed. |

### Example Requests

#### Card number payment

```javascript

{

"reference": "00000000-0000-0000-0000-000000000000",

"code":"aHR0cDovLzIuemFwLnBlP3Q9NiZpPTgxNzo0NjM6N1szNHwxMC4wMDoxMFszOXxaQVIsMzh8Q2VudHJhbCBQZXJr",

"amount": 1000,

"tipAmount": 200,

"customer": {

"id": "DEF-456"

},

"paymentUTCDate": "0001-01-01T00:00:00.000Z",

"paymentMethod": {

"card": {

"cardNumber": "4000000000000002",

"cvv": "999",

"holderName": "Card Holder",

"expiryMonth": 9,

"expiryYear": 2030

}

},

"orderReference": "00000000-0000-0000-0000-000000000000"

}

```

#### Card number payment using secure data

```javascript

{

"reference": "00000000-0000-0000-0000-000000000000",

"code":"aHR0cDovLzIuemFwLnBlP3Q9NiZpPTgxNzo0NjM6N1szNHwxMC4wMDoxMFszOXxaQVIsMzh8Q2VudHJhbCBQZXJr",

"amount": 1000,

"tipAmount": 200,

"customer": {

"id": "DEF-456"

},

"paymentUTCDate": "0001-01-01T00:00:00.000Z",

"paymentMethod": {

"card": {

"cardNumber": "4000000000000002",

"holderName": "Card Holder",

"expiryMonth": 9,

"expiryYear": 2030,

"secureData": {

"enrolled": "Y",

"paresStatus": "Y",

"cavv": "Td7wOfSL7kueWouRKPhX883w8ReT",

"xid": "eY4hCbMdj9FQ0X5CV9iQHt2y82T4",

"eci": "05",

"secure3DVersion": "2.1.0",

"secure3DDirectoryServerTransId": "00000000-0000-0000-0000-000000000000",

"secure3DAuthenticationType": "03"

}

}

},

"orderReference": "00000000-0000-0000-0000-000000000000"

}

```

#### Tokenised card payment

```javascript

{

"reference": "00000000-0000-0000-0000-000000000000",

"code":"aHR0cDovLzIuemFwLnBlP3Q9NiZpPTgxNzo0NjM6N1szNHwxMC4wMDoxMFszOXxaQVIsMzh8Q2VudHJhbCBQZXJr",

"amount": 1000,

"tipAmount": 200,

"customer": {

"id": "DEF-456"

},

"paymentUTCDate": "0001-01-01T00:00:00.000Z",

"paymentMethod": {

"card": {

"token": "00000000-0000-0000-0000-000000000000",

"cvv": "999"

}

},

"orderReference": "00000000-0000-0000-0000-000000000000"

}

```

#### External (non-Zapper) payment

```javascript

{

"reference": "bcf12812-affa-42c9-90c8-db65188ff037",

"code":"aHR0cDovLzIuemFwLnBlP3Q9NiZpPTgxNzo0NjM6N1szNHwxMC4wMDoxMFszOXxaQVIsMzh8Q2VudHJhbCBQZXJr",

"amount": 1000,

"tipAmount": 100,

"paymentUTCDate": "0001-01-01T00:00:00.000Z",

"customer": {

"id": "DEF-456"

},

"paymentMethod": {

"external": {

"reference": "12345",

"status": "success"

}

}

"orderReference": "00000000-0000-0000-0000-000000000000"

}

```

## Payment Response

| Field | DataType | Description |

| ------------------------ | ------------------------------------- | ----------------------------------------------------------------------------------------------------------- |

| reference | string | Unique reference of the payment. |

| invoiceReference | string | Zapper's invoice reference. |

| invoiceExternalReference | string | Merchant's invoice reference. |

| merchantName | string | Merchant name. |

| currencyISOCode | string | The Currency ISO code of the invoice. |

| invoicedAmount | number | The invoiced amount in cents. |

| paymentReference | string | Zapper's payment reference (Zapper ID). |

| paymentUTCDate | string | The date of the payment. |

| paymentMethodType | string | Payment method type for processing the payment. |

| paymentMethodDescription | string | The masked value of the payment method. |

| status | string | The [status ](#payment-status)of the payment. |

| verificationUrl | <p>string</p><p><em>optional</em></p> | The URL to invoke additional verification when the status is \_verificationRequired.\_ |

| tipAmount | number | The tip amount paid by the customer in cents. |

| processedAmount | number | <p>The amount processed for the request.<br><em>Including tip.</em></p> |

| customer | object | The [customer's](#customer) first and last name. |

| siteReference | string | The identifier of the point of sale till. This is required for the routing of Zapper payments and invoices. |

| errors | <p>array</p><p><em>optional</em></p> | List of [errors ](#error)related to the transaction. |

### Payment Status

| Value | Description |

| -------------------- | --------------------------------------------------------------------- |

| processing | The transaction is processing. |

| success | The transaction completed successfully. |

| failed | The transaction failed during processing. |

| verificationRequired | The transaction verification. A URL will be returned in the response. |

### Customer

| Field | Datatype | Required | Description |

| --------- | -------- | -------- | -------------------------------------- |

| id | string | Yes | The unique reference for the customer. |

| firstName | string | Yes | The name of the customer. |

| lastName | string | Yes | The last name of the customer. |

### \*\*Error\*\*

| Field | Type | Description |

| -------------- | ------ | ------------------------------------------------------------------------------------------------------------------------ |

| errorReference | string | <p>The error <a href="other/errors">identifier</a>.</p><p><em>This value can be quoted when contacting support.</em></p> |

| message | string | The message regarding the error. |  
  
  
  
  
  
  
  
  
  
  
---

description: >-

This endpoint allows for the partner to retrieve the status of a Zapper

processed payment.

---

# Payment Details

## Status

<mark style="color:blue;">`GET`</mark> `https://api.zapper.com/v1/payments/{paymentReference}`

Retrieves the payment details for the payment reference.

#### Path Parameters

| Name | Type | Description |

| ---------------- | ------ | ---------------------------- |

| paymentReference | string | The reference of the payment |

#### Headers

| Name | Type | Description |

| ------------- | ------ | ------------------------------------------------------------------------------------------------- |

| Authorization | String | <p>Bearer &#x3C;Identity Token><br>The identity token received from the service account login</p> |

| x-api-key | string | Authentication Key |

{% tabs %}

{% tab title="200 Payment details returned for the payment reference and the customer." %}

```javascript

{

"reference": "00000000-0000-0000-0000-000000000000",

"paymentReference": "4G3GR707EW0QZ0G1M0",

"merchantName": "Zapper Merchant",

"status": 1,

"paymentMethodLabel": "\*\*\*\* 0002",

"currencyISOCode": "ZAR",

"invoicedAmount": 1000,

"amount": 1000,

"tipAmount": 200,

"processedAmount": 1200,

"modifiedUTCDate": "0001-01-01T00:00:00.000Z",

"errors": [{

"errorReference": 10,

"message": "Your transaction has been declined by your bank",

}]

}

```

{% endtab %}

{% tab title="404 Payment details not found for the provided reference for the customer." %}

```

```

{% endtab %}

{% endtabs %}

## History

<mark style="color:blue;">`GET`</mark> `https://api.zapper.com/v1/payments`

Retrieves the payment history for the identity provided. The result set will be ordered by the latest order first.

#### Query Parameters

| Name | Type | Description |

| ----------------- | ------ | ------------------------------------------------------------------------------------------------------------------------------------- |

| customerReference | string | Filter on customer reference. |

| page | string | <p>The page number.<br><em>Default: 1</em></p> |

| pageSize | string | <p>The number of items to be returned in the response.<br><em>Default: 50</em><br><em>Results are limited to 50 per request.</em></p> |

#### Headers

| Name | Type | Description |

| ------------- | ------ | ------------------------------------------------------------------------------------------------- |

| Authorization | string | <p>Bearer &#x3C;Identity Token><br>The identity token received from the service account login</p> |

| x-api-key | string | Authentication Key |

{% tabs %}

{% tab title="200 " %}

```javascript

{

"payments": [{

"reference": "00000000-0000-0000-0000-000000000000",

"invoiceReference": "00000000-0000-0000-0000-000000000000",

"invoiceExternalReference": "00000000-0000-0000-0000-000000000000",

"merchantName": "SyliviaBiller548655",

"currencyISOCode": "ZAR",

"invoicedAmount": 1000,

"paymentReference": "XGKGE3020Q2E8Y4NRD",

"paymentUTCDate": "2020-10-06T00:00:00.0Z",

"paymentMethodType": "Card",

"paymentMethodDescription": "\*\*\*\* 0002",

"status": "success",

"tipAmount": 200,

"processedAmount": 1200,

"customer": {

"id": "14c5c567-b062-47ea-b448-06b1a296900a"

},

"siteReference": "24054",

"errors": null

}],

"previousPage": "/v1/payments?customerReference=14c5c567-b062-47ea-b448-06b1a296900a&page=1&pageSize=20",

"nextPage": "/v1/payments?customerReference=14c5c567-b062-47ea-b448-06b1a296900a&page=3&pageSize=20",

}

```

{% endtab %}

{% tab title="204 No payment details found." %}

```

```

{% endtab %}

{% tab title="401 Invalid identity token." %}

```

```

{% endtab %}

{% endtabs %}

### History

| Field | DataType | Description |

| ------------ | ------------------------------------- | ------------------------------------------------------------------------------------------------------------- |

| payments | array | List of [payments](#payment-details). |

| previousPage | <p>string</p><p><em>optional</em></p> | <p>Link to the previous page.</p><p><em>The link is provided when then page number is greater than 1</em></p> |

| nextPage | <p>string</p><p><em>optional</em></p> | <p>Link to the next page.</p><p><em>The link is provided when there a next page.</em></p> |

### Payment Details

| Field | DataType | Description |

| ------------------------ | ------------------------------------- | ----------------------------------------------------------------------------------------------------------- |

| reference | string | A unique reference for the payment. |

| invoiceReference | <p>string</p><p><em>optional</em></p> | Zapper's invoice reference. |

| invoiceExternalReference | <p>string</p><p><em>optional</em></p> | Merchant's invoice reference. |

| merchantName | string | Merchant name. |

| currencyISOCode | string | The Currency ISO code of the invoice. |

| invoicedAmount | number | The invoiced amount in cents. |

| paymentReference | string | Zapper's payment reference. |

| paymentUTCDate | string | The date of the payment. |

| paymentMethodType | string | Payment method type for processing the payment. |

| paymentMethodDescription | string | The masked value of the payment method. |

| status | string | The [status ](#payment-status)of the payment. |

| verificationUrl | <p>string</p><p><em>optional</em></p> | The URL to invoke additional verification when the status is \_3 - VerificationRequired.\_ |

| tipAmount | number | The tip amount paid by the customer in cents. |

| processedAmount | number | <p>The amount processed for the request.<br><em>Including tip.</em></p> |

| customer | object | The [customer's ](#customer)details. |

| siteReference | string | The identifier of the point of sale till. This is required for the routing of Zapper payments and invoices. |

| errors | array | List of [errors ](#error)related to the transaction. |

### Payment Status

| Value | Description |

| -------------------- | --------------------------------------------------------------------- |

| processing | The transaction is processing. |

| success | The transaction completed successfully. |

| failed | The transaction failed during processing. |

| verificationRequired | The transaction verification. A URL will be returned in the response. |

### Customer

| Field | Datatype | Required | Description |

| --------- | ------------------------------------- | -------- | ----------------------------------- |

| id | string | yes | A unique reference for the customer |

| firstName | <p>string</p><p><em>optional</em></p> | Yes | Name of the customer. |

| lastName | <p>string</p><p><em>optional</em></p> | Yes | Last name of the customer |

### \*\*Error\*\*

| Field | Type | Description |

| -------------- | ------ | ------------------------------------------------------------------------------------------------------------------------ |

| errorReference | string | <p>The error <a href="other/errors">identifier</a>.</p><p><em>This value can be quoted when contacting support.</em></p> |

| message | string | The message regarding the error. |  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
# Testing

This page contains the information needed to integrate with the Zapper test environment. This environment should be used for testing the integration with the Zapper Platform. The environment is not to be seen as a production environment and no live transactions should be processed through the testing environment.

## Domain

```

https://stg-api.zapperdev.com

```

## API key

Please contact [support@zapper.com](mailto:%20support@zapper.com) to get more information.

## Test cards

Use the following cards to test with.

| Card Number | Outcome | Description |

| ---------------- | ------- | -------------------------------------------------------- |

| 4000000000000002 | Success | This card can be used to test a successful transaction. |

| 5200000000000015 | Success | This card can be used to test a successful transaction. |

| 4000000000000028 | Failed | This card can be used to test a failed transaction. |

| 4000000000000036 | Failed | This card can be used to test a failed transaction |

{% hint style="info" %}

The expiry date must be in the future.&#x20;

{% endhint %}

{% hint style="info" %}

The CVV must be a number between 100 and 999.

{% endhint %}

{% hint style="info" %}

The cardholder name can be anything.

{% endhint %}  
  
  
  
  
  
# Errors

| Reference | Description |

| --------- | ------------------------------------------------------------------------------------------------------------ |

| 1 | General error. |

| 10 | Payment declined to process. |

| 16 | Invalid merchant. |

| 19 | Currency mismatch between code and merchant |

| 36 | Processing error. |

| 37 | Error creating transaction. |

| 50 | Card number not provided. |

| 70 | Cardholder name not provided. |

| 95 | The payment failed during initial processing. |

| 96 | <p>Card expiry date invalid.</p><p><em>Month must be in range 1-12; Year must be current or future.</em></p> |

| 132 | Invalid customer. |

| 157 | Card error. |

| 195 | Invalid payment method. |

| 231 | Invalid QR code provided. |

| 238 | Card type not supported. |