Getting Started

Get a first look into viafintech and our Retail product!

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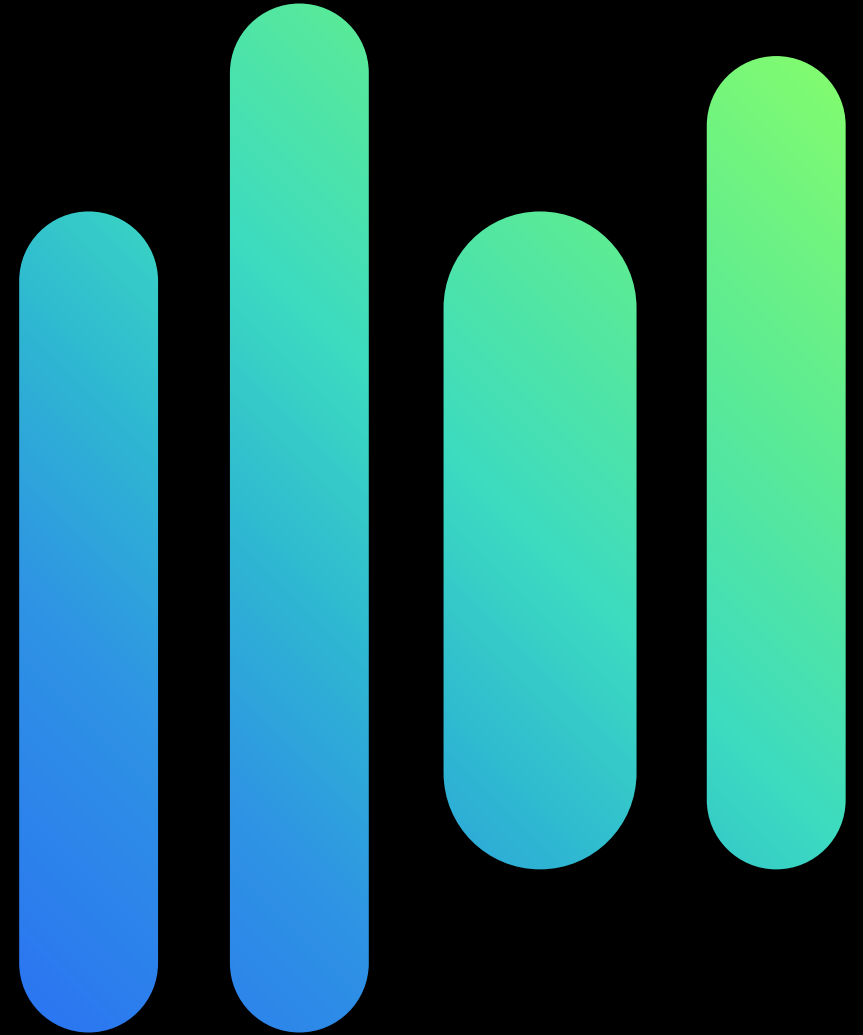
Documentation

Check out our API v2 documentation page
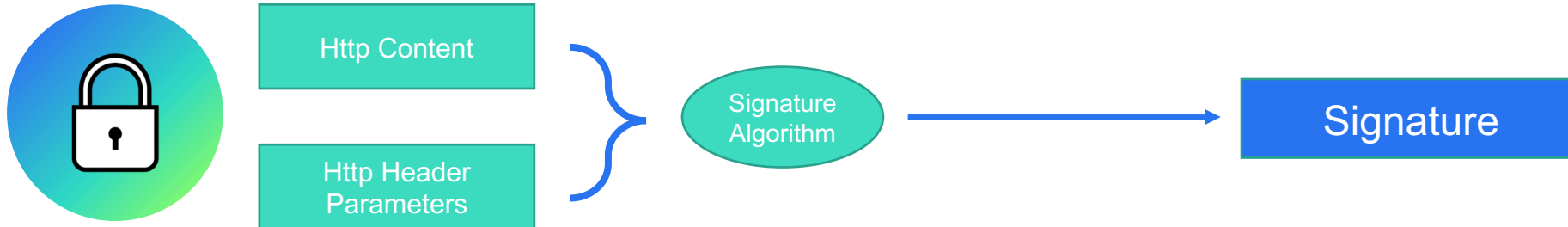➡ https://docs.viafintech.com/api-retail/v2/#introduction

Login credentials will be sent out to you at your request.

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Authentication

Our API uses state-of-the-art security techniques. Each request must be signed with a special generated hash.

➡️ To generate the signature we will use the "Signature Generator" on our documentation page

The signature is time critical which means that the date header should not differ from the current time by more than one minute.
NOTE: Standard time zone is GMT. If you use a different format zone consider the correct time in GMT to successfully send requests.

Authentication

How to use the "Signature Generator"?

Go to the Signature Generator page in our documentation.

Host:Port	api-retail.viafintech.com:443
Method	POST
Path	/v2/transactions/get_info
Query	
Date	Thu, 31 Mar 2016 10:50:31 GMT
<Reserved>	
Body	
Key	6b3fb3abef828c7d10b5a905a49c988105621395

Enter the URL for the API: for testing use the sandbox URL

Enter the request method

Enter the path for the request

As specified in the Date Header. Correctly formatted and accurate.

An assigned API given to the user upon registration

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Creating a Request!

Let's create a /ping request and send it to the "**Sandbox API**"
→ The /ping endpoint allows verifying that the connection to viafintech and authentication work.

→ The API is accessible via **HTTPS** and uses **form URL-encoding for requests** and **XML for responses**.

→ Sandbox API Endpoint: https://api-offline-sandbox.viafintech.com/v2

→ Create the request: use the **/ping** endpoint mentioned in the documentation
https://docs.viafintech.com/api-retail/v2/endpoints/ping

→ Send the request to the "**Sandbox API**"

Note: Use the created signature to communicate with viafintech.com.
For HTTPS use standard CA certificates, self signed certificates will not be accepted.

Example Request /ping

In the next steps we will create a ping and a get-info request.

Example Request:

Enter your offline ID

```
POST /v2/transactions/get_info HTTP/1.1
Authorization: BZ1-HMAC-SHA256 OfflinePartnerId=<ID>,
Signature=3b1a28fffd1cd2bbc1ec24cfbca1e85d802159e78c08328example123
Date: Thu, 31 Mar 2016 10:50:31 GMT
Host: api-retail.viafintech.com
```

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Example Response /ping

The **/ping** request will receive a response which will be sent to the notification URL setup in the Control Center. For testing, use the Sandbox notification URL.

Example Response:

```
HTTP/1.1 200 OK
Date: Thu, 23 Mar 2017 09:00:48 GMT
Bz-Signature: BZ1-HMAC-SHA256
f4a835fba5bc4950f5a0f52a999af19c17a458c8f997e9cdbb4ea40d0e60db12
Content-Length: ...
Content-Type: application/xml;charset=utf-8
Request-Id: 2b48b13ec1994d1e9cc577058c7b3be1

<?xml version="1.0" encoding="UTF-8"?>
<response>
  <result>0</result>
</response>
```

Example Request /get_info

Let's create a get_info request and send it to the "**Sandbox API**"

→ The API is accessible via **HTTPS** and uses **form URL-encoding for requests** and **XML for responses**.
→ Sandbox API Endpoint: https://api-retail-sandbox.viafintech.com/v2
→ Create the request: use the get_info test barcode mentioned in the documentation Test Barcodes
→ Send the request to the "**Sandbox API**"

Enter your Offline Partner ID

Example Request:

Enter your Signature

```
POST /v2/transactions/get_info HTTP/1.1
Authorization: BZ1-HMAC-SHA256 OfflinePartnerId=<id>,
Signature=<signature> Date: <date>
Host: api-offline.viafintech.com
Content-Type: application/x-www-form-urlencoded
barcode=40533...
```

Enter your test barcode

Example Response /get_info

The /get_info request will receive a response which will be sent to the notification URL setup in the Control Center. For testing, use the Sandbox notification URL.

Example Response:

```
HTTP/1.1 200 OK
Date: Thu, 31 Mar 2016 10:50:32 GMT
Bz-Signature: BZ1-HMAC-SHA256 b5bb9d8014a0f9b1d61e21e796d78dccdf1352f23cd32812f4850b878ae4944c
Content-Length: ...
Content-Type: application/xml;charset=utf-8
Request-Id: 2b48b13ec1994d1e9cc577058c7b3be1

<?xml version="1.0" encoding="UTF-8"?>
<response>
  <result>0</result>
  <barcode>4053361000000</barcode>
  <transaction-id>5ff88be649ea498</transaction-id>
  <procedure-id>3acdb3c1941c442</procedure-id>
  <amount>79.99</amount>
  <currency>EUR</currency>
  <fallback-receipt>
    <line>---------------------------------------</line>
    <line>|              Barzahlen              |</line>
    <line>---------------------------------------</line>
    <line></line>
    <line>Leider ist bei der Bezahlung ein Fehler</line>
    <line>aufgetreten.</line>
    <line>Bitte kontaktieren Sie den</line>
    <line>Barzahlen Kundenservice unter</line>
    <line>030 346 46 16 - 06</line>
  </fallback-receipt>
</response>
```

Common Mistakes

- Request body contains carriage returns <CR> instead of line feeds <LF> →   Try to remove <CR> and inline the request body

- The data for the signature and the data sent defer (e.g. Date-Header, Request body, ...)

- Wrong API Key used →   please check your API Key in the Control Center

- For some requests an idempotency-key is required →   please check the docs.

→**In any other case please have a look at the error message in the api response**

Error Handling

Most error responses are signed. Only errors where a signature is not possible (e.g due to the API key not being available), are not signed. The lists of errors below indicate whether a specific error is signed. For error codes that are marked as signed, check the response's signature.

This is a list of errors that can be returned from all endpoints. The column *Signed?* Indicates whether errors with this result code are signed

Result Code	HTTP Status	Error Message (Example)	Signed?
0	200	- (Success)	yes
1000	400	The request format is invalid, e.g. `bad request`	no
1001	400	`invalid host header`	no
1002	413	`request body too large` - this does not happen with normal usage	no
1101	401	`invalid signature` - Signature was generated improperly, for different data than the data in the request, or the API key is invalid.	no
1102	401	invalid signature format, e.g. `invalid Authorization header format or missing header`	no
1103	401	`offline partner not found` - Only returned for sandbox requests with an invalid offline partner ID.	no
1104	401	`offline partner only allowed for sandbox`	no
1201	404	`invalid request url`	yes
1202	405	`method not allowed` - The used HTTP request method is not allowed	yes
1203	400	`invalid query params` - Query parameters are not used at the moment.	yes
1204	400	`unsupported barcode type for endpoint`	yes
1500	500	`internal server error` - A viafintech-internal error occured.	no

Questions?

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