

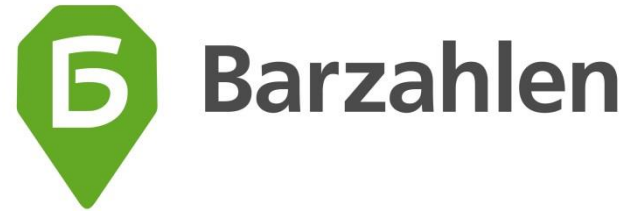


**Barzahlen**

# Getting started

How to use Barzahlen v2 API

# Documentation



Check out our API v2 documentation page  
→ <https://docs.barzahlen.de/api/v2/>

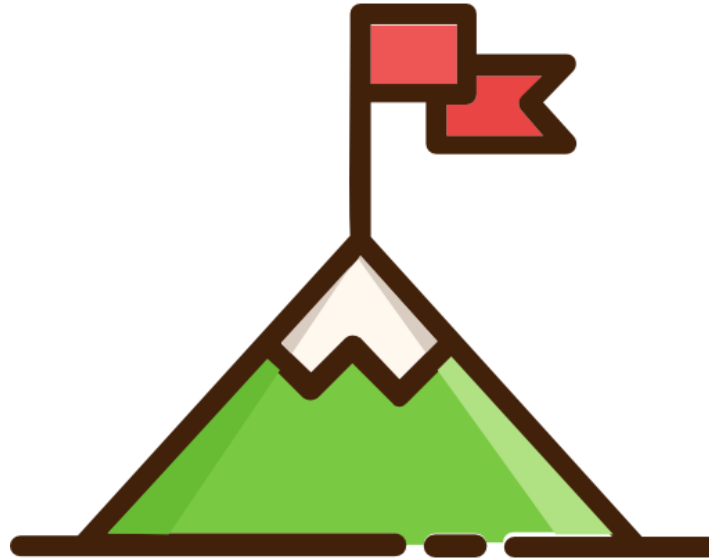
If you want to use our API with **Ruby** or **PHP** please have a look at our ready-to-use SDKs. They get you started in seconds.

Ruby: [Barzahlen Gem](#)  
PHP: [Barzahlen Package](#)

# Goal



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In this guide we will create a signed request and we will send it to the Barzahlen sandbox api.

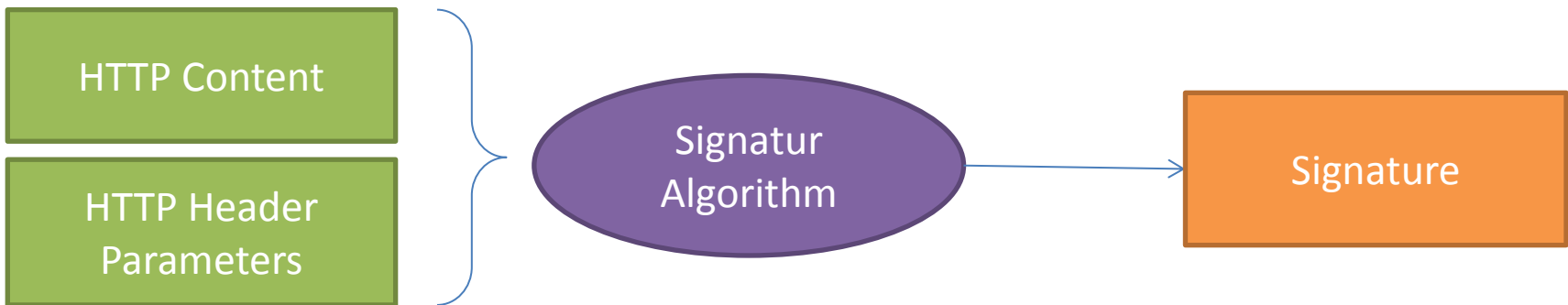
# Authentication



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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 „Signatur Generator“ on our documentation page.



The signature is time critical which means that the date header should not differ from current time more than one minute.

# Let's create a slip



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1. Retrieve endpoint for slip creation
2. Build request content
3. Generate the signature
4. Send request



## 1. Retrieve endpoint for slip creation

Host: <https://api-sandbox.barzahlen.de/v2>

POST `/slips`

## 2. Build request content

```
{  
  "slip_type": "payment",  
  "customer": {  
    "key": "customer@example.com"  
  },  
  "transactions": [  
    { "currency": "EUR", "amount": "99.50" }  
  ]  
}
```

customer key

pay amount: 99,50 €

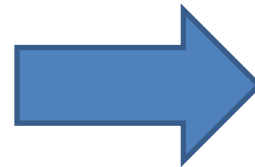
→ Now we are ready to create a signature in the next step



## 3. Generate Signature

Now let's head to our Signature Generator (<https://docs.barzahlen.de/api/v2/#signature-generator>) and generate a signature for this specific request. The generation algorithm is described in our docs.

Host:Port	api-sandbox.barzahlen.de:443
HTTP Method	POST
Path	/v2/slips
Query String	
Date	Mon, 15 May 2017 12:27:20 GMT
Idempotency-Key	af40c39a-89c8-4a95-9dda-c2ba8e6ed564
Body	<pre>ns": [{"current": "EUR", "amount": "99.50"}]</pre>
Key	



Signature

```
43eab154e66f7c8c9bab426308555dbf9a905e644e29fa7bc953ba31805
```

Your api key

Current date

Request body (json)  
inline

→ Now we are ready for take off ...

# 4. Send: Postman (1/2)



The screenshot shows the Postman Builder interface for a POST request to `https://api-sandbox.barzahlen.de/v2/slips`. The 'Headers' tab is active, displaying a table of headers:

Key	Value
<input checked="" type="checkbox"/> Date	Mon, 15 May 2017 12:27:20 GMT
<input checked="" type="checkbox"/> Authorization	BZ1-HMAC-SHA256 DivisionId= <code>1440401</code> , Signature= <code>9765e8bbf56b5db239f5</code>
<input checked="" type="checkbox"/> Idempotency-Key	<code>af40c39a-89c8-4a95-9dda-c2ba8e6ed564</code>
New key	value

Enable Interceptor to overwrite Date header

Date used in signature

Set division

Set signature

Set idempotency-Key (random generated uuid v4)

The screenshot shows the Postman Builder interface for the same POST request, with the 'Body' tab active. The 'raw' radio button is selected, and the request body is set to the following JSON:

```
1 [{"slip_type": "payment", "customer": {"key": "customer@example.com"}, "transactions": [{"currency": "EUR", "amount": "99.50"}]}
```

Set request body (should be the exact same as entered in the signature generator)



## 4. Send: Postman (2/2)



→ Submit

```
Body Cookies Headers (9) Tests Status: 201 Created Time: 252 ms
Pretty Raw Preview JSON
1 {
2   "id": "slp-d570542c-26cd-48f8-a22c-44555f135622",
3   "slip_type": "payment",
4   "division_id": "84681",
5   "reference_key": null,
6   "barcode_ean13": "4051732513074",
7   "hook_url": null,
8   "expires_at": "2017-05-29T21:59:59.000Z",
9   "customer": {
10    "key": "customer@example.com",
11    "cell_phone_last_4_digits": null,
12    "email": null,
13    "language": "de-DE"
14  },
15  "checkout_token": "djf8Y2hrdHxzBhAtZDU3MDU0MmMmMjZjZC000GY4LWEyMmMtNDQ1NTVmMTM1NjIyFC9WZjZocWszYXlmeKtwYmtrUEUwaU0zWGVpTmxYW
    GpOYUZHxYhGykJicEk9",
16  "metadata": {},
17  "transactions": [
18    {
19      "id": "173251307",
20      "currency": "EUR",
21      "amount": "99.5",
22      "state": "pending"
    }
  ]
}
```



## 4. Send: **CURL** (1/3)



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### \$ curl

```
-X POST -d '{"slip_type": "payment", "customer": {"key": "customer@example.com"}, "transactions": [{"currency": "EUR", "amount": "99.50"}]}' \
```

```
-H "Date: Mon, 15 May 2017 13:32:20 GMT" \
```

```
-H "Authorization: BZ1-HMAC-SHA256 DivisionId=#####,  
Signature=9ddd48dd912a6e73c841a21cd23c06cc65e55a1727d34fdd02547682573832fd" \
```

```
-H "Idempotency-Key: 0f1db14a-81ec-405d-8189-50d0c907ebea" \
```

```
https://api-sandbox.barzahlen.de/v2/slips
```

## 4. Send: CURL (2/3)



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### >> Reponse

```
{
  "id":"slp-3473c4de-ab78-4e50-b04e-62a5cee3aba5",
  "slip_type":"payment",
  "division_id":"84681",
  "reference_key":null,
  "barcode_ean13":"4051732578462",
  "hook_url":null,
  "expires_at":"2017-05-29T21:59:59.000Z",
  "customer":{
    "key":"customer@example.com",
    "cell_phone_last_4_digits":null,
    "email":null,
    "language":"de-DE"
  },
  "checkout_token":"djF8Y2hrdHxzbHAtMzQ3M2M0ZGUtYWl3OC00ZTUwLWIwNGUtNjJhNWNlZTNhYmE1fGpCTkhpT0cvV2M4SjUrM2hsWG5TOU9EVXFsWG9MWXEzZk8rSIBqc1FBR0U9",
  "metadata":{

  },
  .....
}
```



## 4. Send: **CURL** (3/3)



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### >> Reponse

```
...
  "transactions":[
    {
      "id":"173257846",
      "currency":"EUR",
      "amount":"99.5",
      "state":"pending"
    }
  ],
  "nearest_stores":[
  ]
}
```



# Common mistakes



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- 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**

# Still questions?



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**IT Support:**

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