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## 1 Introduction

## 1.1 References

Referenced documents in creation of this document are listed in the Table 1.

Document Reference	Document Title	Version	Filename
[1]	[[ reference-doc-title ]]		[[ reference-doc-filename ]]
[2]			
[3]			
[4]			
[5]			
[6]			
[7]			
[8]			

Table 1: Document references



# 2 puzzlesCloudMDs

pc md 1 2 3 4



## 3 Backticks

#### 3.1 Backticks MD file

this is single line of backticks

Tis is text which contains text under backticks

this is backticks this is regular text

several text lines under single backticks several text lines under single backticks

#### 3.1.1 Backtickts in heading

#### 3.2 End of file

test



## 4 Big

## 4.1 Edge Service

123456 The Edge Service provides the interface between the public REST API and internal AMQP API.

#### 4.1.1 TODO

#### 4.1.1.1 TODO version 1.0

- $\checkmark$  [x] Test environment and credentials
- ✓ [x] specify voucher content fields
- √ [x] specify voucher pricing fields
- $\checkmark$  [x] specify payment method fields

## 4.1.1.2 TODO version 1.0-next

- ✓ [] refactor entities and apply relationships
- √ [] provide full resource schemas
- ✓ [] enforce validation of resource schemas

## 4.1.2 Test environment and credentials

TODO

Username	Password	Description
test@test.org	test	just protected
test@gmail.com	test	just testing
testtest	test	qa

## 4.1.3 Edge Service Registry

The Edge Service Registry is responsible to maintain an index of all currently available Edge Services and configure all its known [Load-Balancers] accordingly.

As of writing no hosting solution has been chosen yet. Therefor the actual API which is used to configure the load-balancers remains unspecified for now.

All Edge Service Instances **must** register themselves on the registry on startup and unregister on shutdown.



## 4.1.4 Edge Service Relay

Every Edge Service will be provided with a local relay connecting its instances to the central Message Broker cluster. The message exchange routing of the relay is configured in such a way, that only messages relevant to its connected Edge Services is routed to it from the broker cluster.

See [Message Relay] for more information.

## 4.1.5 Edge Service Client

Each Service that is to be served by the Edge Service is represented by a so-called Edge Service Client. It is responsible to provide the implementation of the public REST API for that given service.

#### 4.1.6 ReST API

The Edge Service API acts as translation layer between the Services and the Frontend. The actual logic is implemented in separate [Edge Service Client]s for each individual Service consumed by the API or API endpoint provided by the API, respectively.

All public-facing endpoints **must** adhere to the [JSONAPI] specification and be subject to strict [Access Control].

## 4.1.6.1 Login

## 4.1.6.1.1 Login request

Variables	Description	Example
ICP_SHOP_ID	see [Test environment and credentials]	
ICP_SHOP_PASSPHRASE	see [Test environment and credentials]	
ICP_SHOP_DIGEST	Derived from \${ICP_SHOP_ID} and \${ICP_SHOP_PASSPHRASE}	MzAwMDAwMTY6dG9wLXNIY3JI dC1wYXNzcGhyYXNI



POST /api/rest/v1/auth/login HTTP/1.1
Authorization: Basic \${ICP\_SHOP\_DIGEST}

Accept: application/vnd.api+json

4.1.6.1.2 Login response

HTTP/1.1 201 Created

Content-Type: application/vnd.api+json

4.1.6.1.3 Cookies

Name Value Domain Path Expires HttpOnly Secure

SESSION MmQ5ZjkxO master.env.a / Seassion true false

GltMTM4My0 pi.shop1.roc

0M2E0LWI1M ks DYtYmUwZjY wMzJiZDY5

4.1.6.2 Logout

4.1.6.2.1 Logout request

Variables Description Example

POST /api/rest/v1/auth/logout HTTP/1.1

Authorization: No Auth

Accept: application/vnd.api+json

4.1.6.2.2 Logout response

HTTP/1.1 204 No Content

## 4.1.6.3 Voucher list

See [VoucherWebList] method in the [Mimas integration] documentation for the source of these fields.



## 4.1.6.3.1 Voucher list request

GET /api/rest/v1/vouchers HTTP/1.1

Authorization: No Auth

Accept: application/vnd.api+json

## 4.1.6.3.2 Voucher list response

HTTP/1.1 200 OK

Content-Type: application/vnd.api+json



```
"data":[
  {
      "id": "f634f09f-9a06-4297-a326-0d703938b702",
      "type": "voucher",
      "attributes":{
         "code": "LEBALLINNL10",
         "currency": "EUR",
         "ean-code": "8717472242211",
         "encryption-type":0,
         "kind":0,
         "name": "Lebara All-in NL 10 EUR",
         "provider-code":"LEBARA",
         "provider-name": "Lebara",
         "short-name": "All-in NL 10",
         "value":10.0,
         "price-total":11.99,
         "price-tax":0.00,
         "price-fee":1.99,
         "payment-methods": {
            "wirecard-creditcard":{
               "name": "Credit Card",
               "provider-name": "Wirecard",
               "image-url": "https://wirecard.com/logo.png"
            "wirecard-paypal":{
               "name":"PayPal",
                "provider-name":"Wirecard"
            }
         }
      }
  },
      "id": "a3473e20-19b4-44fe-8389-67a511854759",
      "type": "voucher",
      "attributes":{
         "code": "LEBALLINNL15",
         "currency":"EUR",
         "ean-code": "8717472242129",
         "encryption-type":0,
         "kind":0,
         "name":"Lebara All-in NL 15 EUR",
         "provider-code": "LEBARA",
         "provider-name": "Lebara",
         "short-name": "All-in NL 15",
         "value":15.0,
         "price-total":16.99,
         "price-tax":0.00,
         "price-fee":1.99,
         "payment-methods":[
            "wirecard-creditcard":{
               "name": "Credit Card",
               "provider-name": "Wirecard",
               "image-url": "https://wirecard.com/logo.png"
            "wirecard-paypal":{
```



## 4.1.6.4 Voucher detail



## 4.1.6.4.1 Voucher detail request

```
GET /api/rest/v1/vouchers/:voucher-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

4.1.6.4.2 Voucher detail response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
{
    "data":{
       "id":"f634f09f-9a06-4297-a326-0d703938b702",
       "type": "voucher",
       "attributes":{
          "code": "LEBALLINNL10",
          "currency": "EUR",
          "ean-code": "8717472242211",
          "encryption-type":0,
          "kind":0,
          "name": "Lebara All-in NL 10 EUR",
          "provider-code":"LEBARA",
          "provider-name": "Lebara",
          "short-name": "All-in NL 10",
          "value":10.0,
          "price-total":11.99,
          "price-tax":0.00,
          "price-fee":1.99,
          "payment-methods": {
             "wirecard-creditcard":{
                "name": "Credit Card",
                "provider-name": "Wirecard",
                "image-url":"https://wirecard.com/logo.png"
             "wirecard-paypal":{
                "name": "PayPal",
                "provider-name": "Wirecard"
             }
          }
       }
    }
}
```

## 4.1.6.5 Voucher order

See [VoucherWebReserve] method in the [Mimas integration] documentation for the source of these fields.

```
4.1.6.5.1 Voucher order request
| Variables | Description | Example | | -------| -------
```



```
POST /api/rest/v1/voucher-orders HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
{
   "data": {
    "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
      "voucher-code": "VODADE15"
       "payment-method": "Wirecard VISA",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "provider-text-url": "https://provider.texts",
       "order-success-redirect-url": "/success",
       "order-failed-redirect-url": "failed",
       "order-canceled-redirect-url": "/cancel"
     }
  }
}
```

field name	type	constrains	description	example
id	UUID	globally unique	globally unique UUID	c91feaf3-5968- 4b60-aa5b- 62fe7fdd905c
type	string	n/a	type of request, must be "voucher- order", "voucher- order"	
voucher-code	string	n/a	code of the voucher gathered from voucher list	"VODADE15"
payment-method	string	n/a	on of the allowed methods for the voucher, denoted in voucher list response	"Wirecard VISA"
notification-type	string	currently only "email" is supported	type of the notification target	"email"
notification-target	string	n/a	target adress	"[me@my- email.com] (mailto:me@my- email.com)"



field name	type	constrains	description	example
order-success- redirect-url	string	valid URL	Where the wirecard should redirect if payment was successfull	protect
order-failed- redirect-url	string	valid URL	Where the wirecard should redirect if payment fails	protect
order-canceled- redirect-url	string	valid URL	Where the wirecard should redirect if payment was canceled	protect

4.1.6.5.2 Voucher order response

```
HTTP/1.1 201 Created
Content-Type: application/vnd.api+json
   "data": {
    "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
       "notification-status": "pending",
       "confirmation-status": "pending",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "payment-provider": "wirecard",
       "payment-redirect-url": "https://wpp-test.wirecard.com/?wPaymentToken=y93bki675x2CdKP8-
h0mLD2zDgf26ptjxSNRiKFiIlM",
       "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
       "payment-status": "pending",
       "payment-method": "creditcard",
       "voucher-code": "LEBALLINNL10",
       "voucher-currency": "EUR",
       "voucher-value": 10.0
       "voucher-status": "pending",
       "order-price-total": 11.99,
       "order-tax-total": 0.00,
       "order-fee-total": 0.99,
       "order-status": "pending",
       "serial-number": "1234",
       "confirmation-date": "0",
       "batch-number": "1234"
    }
  }
}
```

## 4.1.6.6 Voucher order detail



## 4.1.6.6.1 Voucher order detail request

```
GET /api/rest/v1/voucher-orders/:order-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

4.1.6.6.2 Voucher order detail response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
   "data": {
     "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
       "notification-status": "pending",
       "confirmation-status": "pending",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "payment-provider": "wirecard",
       "payment-redirect-url": "https://wpp-test.wirecard.com/?wPaymentToken=y93bki675x2CdKP8-
h0mLD2zDgf26ptjxSNRiKFiIlM",
       "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
       "payment-status": "pending",
       "payment-method": "creditcard",
       "voucher-code": "LEBALLINNL10",
       "voucher-currency": "EUR",
       "voucher-value": 10.0
       "voucher-status": "pending",
       "order-price-total": 11.99,
       "order-tax-total": 0.00,
       "order-fee-total": 1.99,
       "order-status": "pending",
       "serial-number": "1234",
       "confirmation-date": "1611313953175"
    }
  }
}
```

## 4.1.6.7 Provider Text

See [GetProvicerTexts] method in the [Mimas integration] documentation for the source of these fields.

## 4.1.6.7.1 Provider Text request

Variables Description Example



```
GET /api/rest/v1/provider-texts/ HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json

GET /api/rest/v1/provider-texts/:provider-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

## 4.1.6.7.2 Provider Text response

```
HTTP/1.1 201 Created
Content-Type: application/vnd.api+json
{
   "data": [
       "id": "f74bb480-d6df-47ad-8a17-8d7b1b176661",
       "type": "voucher-text",
       "attributes": {
         "provider-code": "ABOUTYOU",
         "kind": "title",
         "title": "Produktname",
         "body": "About You-Geschenkkarte"
       }
     },
       "id": "a598bf3b-abe0-4fc4-80fa-135a84510c81",
       "type": "voucher-text",
       "attributes": {
         "provider-code": "ABOUTYOU",
         "kind": "subtitle",
         "title": "Slogan",
         "body": "Hol Dir per E-Mail eine About You-Geschenkkarte."
       }
     }
   ]
}
```

#### 4.1.6.8 Content

See [Content Service] for more information on the source of these fields.

## 4.1.6.8.1 Content request

Variables Description Example



```
GET /api/rest/v1/content/i18next.json HTTP/1.1
Authorization: No Auth
Accept: application/json
```

## 4.1.6.8.2 Content response

```
HTTP/1.1 200 OK
Content-Type: application/json
{
   "en": {
     "world.hello": "Hello, World!",
     "example.text": "Lorem ipsum dolor sit amet...",
     "button.cancel": "Cancel",
     "radio.options": {
      "option-1": "Selection 1",
       "option-2": "Selection 2",
    }
   },
   "de": {
     "world.hello": "Hallo, Welt!",
     "example.text": "Lorem ipsum dolor sit amet...",
     "button.cancel": "Abbrechen"
     "radio.options": {
       "option-1": "Auswahl 1",
       "option-2": "Auswahl 2",
   }
}
```

## 4.1.6.9 Verification

See for more information on the source of these fields.



4.1.6.9.1 Verification request by phone number

```
POST /api/rest/v1//auth/phone-number-verification HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json

{
   "data": {
      "id": "38f4dfef-9baa-4302-831f-e41df4ce4084",
      "type": "phone-number-verification",
      "attributes": {
            "phone-number": "+381691994655",
            "sms-confirmation-code": "716569"
            }
        }
    }
}
```

4.1.6.9.2 Verification by phone number response

```
HTTP/1.1 200 OK
Content-Type: application/json

{
    "data": {
        "type": "phone-number-verification",
        "attributes": {
            "phone-number": "+381691994655",
            "ok": false,
            "remaining-number-of-attempts": 4,
            "remaining-expiration-time": 0
        }
    }
}
```

4.1.6.9.3 Verification request by sms

4.1.6.9.4 Verification by sms number response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
```



```
{
  "data": {
    "type": "sms-verification-code",
    "attributes": {
        "phone-number": "+381691994655",
        "ok": true,
        "remaining-number-of-attempts": 2,
        "remaining-delay-time": 20,
        "remaining-expiration-time": 1800
    }
}
```

#### 4.1.6.10 Cookies

## 4.1.6.10.1 Cookies request

```
POST /api/rest/v1/cookies HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
   "data": [
       "type": "cookie",
       "id": "shopId",
       "attributes": {
         "name": "shopId",
         "value": "1234"
       }
     },
       "type": "cookie",
       "id": "ns_dev_id",
       "attributes": {
         "name": "ns_dev_id",
         "value": "device_id"
       }
     }
   ]
}
```

## 4.1.6.10.2 Cookies response

```
HTTP/1.1 200 OK
```

#### 4.1.6.11 Documentation

Returns list of Json Schemas for request and response for requested rest endpoint. Use exact endpoint plus schema url parameter. For example, /api/rest/v1/vouchers?schema will return json schemas for /api/rest/v1/vouchers endpoint.



#### 4.1.6.11.1 Documentation request

```
GET /api/rest/v1/vouchers?schema HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

## 4.1.6.11.2 Documentation response

Complete Response is omitted because of size, here is just a part:

```
HTTP/1.1 200 OK
   "required": [
     "createdDate",
     "notificationStatus",
     "notificationTarget",
     "notificationType",
     "orderFeeTotal",
     "orderPriceTotal",
     "orderStatus",
     "orderTaxTotal",
     "paymentMethod",
     "paymentProvider",
     "paymentStatus",
     "shortId",
     "voucherCode",
     "voucherCurrency",
     "voucherStatus",
     "voucherValue"
   ]
}
```

#### 4.1.6.12 i18 internationalization

✓ Retrieves i18next json based on requested language

## 4.1.6.12.1 i18 request

```
GET api/rest/v1/content/i18next.json/de HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

## 4.2 Edge Service

The Edge Service provides the interface between the public REST API and internal AMQP API.

#### 4.2.1 TODO

#### 4.2.1.1 TODO version 1.0

 $\checkmark$  [x] Test environment and credentials



- √ [x] specify voucher content fields
- √ [x] specify voucher pricing fields
- $\checkmark$  [x] specify payment method fields

#### 4.2.1.2 TODO version 1.0-next

- ✓ [] refactor entities and apply relationships
- √ [] provide full resource schemas
- ✓ [] enforce validation of resource schemas

## 4.2.2 Test environment and credentials

TODO

Username	Password	Description
test@test.org	test	just protected
test@gmail.com	test	just testing
testtest	test	qa

## 4.2.3 Edge Service Registry

The Edge Service Registry is responsible to maintain an index of all currently available Edge Services and configure all its known [Load-Balancers] accordingly.

As of writing no hosting solution has been chosen yet. Therefor the actual API which is used to configure the load-balancers remains unspecified for now.

All Edge Service Instances **must** register themselves on the registry on startup and unregister on shutdown.

#### 4.2.4 Edge Service Relay

Every Edge Service will be provided with a local relay connecting its instances to the central Message Broker cluster. The message exchange routing of the relay is configured in such a way, that only messages relevant to its connected Edge Services is routed to it from the broker cluster.

See [Message Relay] for more information.

## 4.2.5 Edge Service Client

Each Service that is to be served by the Edge Service is represented by a so-called Edge Service Client. It is responsible to provide the implementation of the public REST API for that given service.



#### 4.2.6 ReST API

The Edge Service API acts as translation layer between the Services and the Frontend. The actual logic is implemented in separate [Edge Service Client]s for each individual Service consumed by the API or API endpoint provided by the API, respectively.

All public-facing endpoints **must** adhere to the [JSONAPI] specification and be subject to strict [Access Control].

#### 4.2.6.1 Login

## 4.2.6.1.1 Login request

Variables Description Example

ICP\_SHOP\_ID see [Test environment and

credentials]

ICP\_SHOP\_PASSPHRASE see [Test environment and

credentials]

ICP\_SHOP\_DIGEST Derived from \${ICP\_SHOP\_ID} MzAwMDAwMTY6dG9wLXNIY3JI

and \${ICP\_SHOP\_PASSPHRASE} dC1wYXNzcGhyYXNI

POST /api/rest/v1/auth/login HTTP/1.1
Authorization: Basic \${ICP\_SHOP\_DIGEST}

Accept: application/vnd.api+json

## 4.2.6.1.2 Login response

HTTP/1.1 201 Created

Content-Type: application/vnd.api+json

### 4.2.6.1.3 Cookies

Name Value Domain Path Expires HttpOnly Secure

SESSION MmQ5ZjkxO master.env.a / Seassion true false

GltMTM4My0 pi.shop1.roc

0M2E0LWI1M ks DYtYmUwZjY wMzJiZDY5

## 4.2.6.2 Logout

## 4.2.6.2.1 Logout request

Variables Description Example



POST /api/rest/v1/auth/logout HTTP/1.1

Authorization: No Auth

Accept: application/vnd.api+json

## 4.2.6.2.2 Logout response

HTTP/1.1 204 No Content

## 4.2.6.3 Voucher list

See [VoucherWebList] method in the [Mimas integration] documentation for the source of these fields.



## 4.2.6.3.1 Voucher list request

GET /api/rest/v1/vouchers HTTP/1.1

Authorization: No Auth

Accept: application/vnd.api+json

## 4.2.6.3.2 Voucher list response

HTTP/1.1 200 OK

Content-Type: application/vnd.api+json



```
"data":[
  {
      "id": "f634f09f-9a06-4297-a326-0d703938b702",
      "type": "voucher",
      "attributes":{
         "code": "LEBALLINNL10",
         "currency": "EUR",
         "ean-code": "8717472242211",
         "encryption-type":0,
         "kind":0,
         "name": "Lebara All-in NL 10 EUR",
         "provider-code":"LEBARA",
         "provider-name":"Lebara",
         "short-name": "All-in NL 10",
         "value":10.0,
         "price-total":11.99,
         "price-tax":0.00,
         "price-fee":1.99,
         "payment-methods": {
            "wirecard-creditcard":{
               "name": "Credit Card",
               "provider-name": "Wirecard",
               "image-url": "https://wirecard.com/logo.png"
            "wirecard-paypal":{
               "name":"PayPal",
                "provider-name":"Wirecard"
            }
         }
      }
  },
      "id": "a3473e20-19b4-44fe-8389-67a511854759",
      "type": "voucher",
      "attributes":{
         "code": "LEBALLINNL15",
         "currency":"EUR",
         "ean-code": "8717472242129",
         "encryption-type":0,
         "kind":0,
         "name":"Lebara All-in NL 15 EUR",
         "provider-code": "LEBARA",
         "provider-name": "Lebara",
         "short-name": "All-in NL 15",
         "value":15.0,
         "price-total":16.99,
         "price-tax":0.00,
         "price-fee":1.99,
         "payment-methods":[
            "wirecard-creditcard":{
               "name": "Credit Card",
               "provider-name": "Wirecard",
               "image-url": "https://wirecard.com/logo.png"
            "wirecard-paypal":{
```



## 4.2.6.4 Voucher detail



## 4.2.6.4.1 Voucher detail request

```
GET /api/rest/v1/vouchers/:voucher-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

4.2.6.4.2 Voucher detail response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
{
    "data":{
       "id":"f634f09f-9a06-4297-a326-0d703938b702",
       "type": "voucher",
       "attributes":{
          "code": "LEBALLINNL10",
          "currency": "EUR",
          "ean-code": "8717472242211",
          "encryption-type":0,
          "kind":0,
          "name": "Lebara All-in NL 10 EUR",
          "provider-code":"LEBARA",
          "provider-name": "Lebara",
          "short-name": "All-in NL 10",
          "value":10.0,
          "price-total":11.99,
          "price-tax":0.00,
          "price-fee":1.99,
          "payment-methods": {
             "wirecard-creditcard":{
                "name":"Credit Card",
                "provider-name": "Wirecard",
                "image-url":"https://wirecard.com/logo.png"
             "wirecard-paypal":{
                "name": "PayPal",
                "provider-name":"Wirecard"
             }
          }
       }
    }
}
```

## 4.2.6.5 Voucher order

See [VoucherWebReserve] method in the [Mimas integration] documentation for the source of these fields.

```
4.2.6.5.1 Voucher order request
| Variables | Description | Example | | -------| -------
```



```
POST /api/rest/v1/voucher-orders HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
{
   "data": {
    "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
      "voucher-code": "VODADE15"
       "payment-method": "Wirecard VISA",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "provider-text-url": "https://provider.texts",
       "order-success-redirect-url": "/success",
       "order-failed-redirect-url": "failed",
       "order-canceled-redirect-url": "/cancel"
     }
  }
}
```

field name	type	constrains	description	example
id	UUID	globally unique	globally unique UUID	c91feaf3-5968- 4b60-aa5b- 62fe7fdd905c
type	string	n/a	type of request, must be "voucher- order", "voucher- order"	
voucher-code	string	n/a	code of the voucher gathered from voucher list	"VODADE15"
payment-method	string	n/a	on of the allowed methods for the voucher, denoted in voucher list response	"Wirecard VISA"
notification-type	string	currently only "email" is supported	type of the notification target	"email"
notification-target	string	n/a	target adress	"[me@my- email.com] (mailto:me@my- email.com)"



field name	type	constrains	description	example
order-success- redirect-url	string	valid URL	Where the wirecard should redirect if payment was successfull	protect
order-failed- redirect-url	string	valid URL	Where the wirecard should redirect if payment fails	protect
order-canceled- redirect-url	string	valid URL	Where the wirecard should redirect if payment was canceled	protect

4.2.6.5.2 Voucher order response

```
HTTP/1.1 201 Created
Content-Type: application/vnd.api+json
   "data": {
    "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
       "notification-status": "pending",
       "confirmation-status": "pending",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "payment-provider": "wirecard",
       "payment-redirect-url": "https://wpp-test.wirecard.com/?wPaymentToken=y93bki675x2CdKP8-
h0mLD2zDgf26ptjxSNRiKFiIlM",
       "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
       "payment-status": "pending",
       "payment-method": "creditcard",
       "voucher-code": "LEBALLINNL10",
       "voucher-currency": "EUR",
       "voucher-value": 10.0
       "voucher-status": "pending",
       "order-price-total": 11.99,
       "order-tax-total": 0.00,
       "order-fee-total": 0.99,
       "order-status": "pending",
       "serial-number": "1234",
       "confirmation-date": "0",
       "batch-number": "1234"
    }
  }
}
```

## 4.2.6.6 Voucher order detail



## 4.2.6.6.1 Voucher order detail request

```
GET /api/rest/v1/voucher-orders/:order-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

4.2.6.6.2 Voucher order detail response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
   "data": {
     "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
       "notification-status": "pending",
       "confirmation-status": "pending",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "payment-provider": "wirecard",
       "payment-redirect-url": "https://wpp-test.wirecard.com/?wPaymentToken=y93bki675x2CdKP8-
h0mLD2zDgf26ptjxSNRiKFiIlM",
       "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
       "payment-status": "pending",
       "payment-method": "creditcard",
       "voucher-code": "LEBALLINNL10",
       "voucher-currency": "EUR",
       "voucher-value": 10.0
       "voucher-status": "pending",
       "order-price-total": 11.99,
       "order-tax-total": 0.00,
       "order-fee-total": 1.99,
       "order-status": "pending",
       "serial-number": "1234",
       "confirmation-date": "1611313953175"
    }
  }
}
```

## 4.2.6.7 Provider Text

See [GetProvicerTexts] method in the [Mimas integration] documentation for the source of these fields.

## 4.2.6.7.1 Provider Text request

Variables Description Example



```
GET /api/rest/v1/provider-texts/ HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json

GET /api/rest/v1/provider-texts/:provider-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

## 4.2.6.7.2 Provider Text response

```
HTTP/1.1 201 Created
Content-Type: application/vnd.api+json
{
   "data": [
       "id": "f74bb480-d6df-47ad-8a17-8d7b1b176661",
       "type": "voucher-text",
       "attributes": {
         "provider-code": "ABOUTYOU",
         "kind": "title",
         "title": "Produktname",
         "body": "About You-Geschenkkarte"
       }
     },
       "id": "a598bf3b-abe0-4fc4-80fa-135a84510c81",
       "type": "voucher-text",
       "attributes": {
         "provider-code": "ABOUTYOU",
         "kind": "subtitle",
         "title": "Slogan",
         "body": "Hol Dir per E-Mail eine About You-Geschenkkarte."
       }
     }
   ]
}
```

#### 4.2.6.8 Content

See [Content Service] for more information on the source of these fields.

## 4.2.6.8.1 Content request

Variables Description Example



```
GET /api/rest/v1/content/i18next.json HTTP/1.1
Authorization: No Auth
Accept: application/json
```

# 4.2.6.8.2 Content response

```
HTTP/1.1 200 OK
Content-Type: application/json
{
   "en": {
     "world.hello": "Hello, World!",
     "example.text": "Lorem ipsum dolor sit amet...",
     "button.cancel": "Cancel",
     "radio.options": {
      "option-1": "Selection 1",
       "option-2": "Selection 2",
     }
   },
   "de": {
     "world.hello": "Hallo, Welt!",
     "example.text": "Lorem ipsum dolor sit amet...",
     "button.cancel": "Abbrechen"
     "radio.options": {
       "option-1": "Auswahl 1",
       "option-2": "Auswahl 2",
   }
}
```

## 4.2.6.9 Verification

See for more information on the source of these fields.



4.2.6.9.1 Verification request by phone number

```
POST /api/rest/v1//auth/phone-number-verification HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json

{
    "data": {
        "id": "38f4dfef-9baa-4302-831f-e41df4ce4084",
        "type": "phone-number-verification",
        "attributes": {
            "phone-number": "+381691994655",
            "sms-confirmation-code": "716569"
        }
    }
}
```

4.2.6.9.2 Verification by phone number response

```
HTTP/1.1 200 OK
Content-Type: application/json

{
    "data": {
        "type": "phone-number-verification",
        "attributes": {
            "phone-number": "+381691994655",
            "ok": false,
            "remaining-number-of-attempts": 4,
            "remaining-expiration-time": 0
        }
    }
}
```

4.2.6.9.3 Verification request by sms

4.2.6.9.4 Verification by sms number response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
```



```
"data": {
    "type": "sms-verification-code",
    "attributes": {
        "phone-number": "+381691994655",
        "ok": true,
        "remaining-number-of-attempts": 2,
        "remaining-delay-time": 20,
        "remaining-expiration-time": 1800
    }
}
```

#### 4.2.6.10 Cookies

#### 4.2.6.10.1 Cookies request

```
POST /api/rest/v1/cookies HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
   "data": [
       "type": "cookie",
       "id": "shopId",
       "attributes": {
         "name": "shopId",
         "value": "1234"
       }
     },
       "type": "cookie",
       "id": "ns_dev_id",
       "attributes": {
         "name": "ns_dev_id",
         "value": "device_id"
       }
     }
   ]
}
```

# 4.2.6.10.2 Cookies response

```
HTTP/1.1 200 OK
```

## 4.2.6.11 Documentation

Returns list of Json Schemas for request and response for requested rest endpoint. Use exact endpoint plus schema url parameter. For example, /api/rest/v1/vouchers?schema will return json schemas for /api/rest/v1/vouchers endpoint.



# 4.2.6.11.1 Documentation request

```
GET /api/rest/v1/vouchers?schema HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

# 4.2.6.11.2 Documentation response

Complete Response is omitted because of size, here is just a part:

```
HTTP/1.1 200 OK
   "required": [
     "createdDate",
     "notificationStatus",
     "notificationTarget",
     "notificationType",
     "orderFeeTotal",
     "orderPriceTotal",
     "orderStatus",
     "orderTaxTotal",
     "paymentMethod",
     "paymentProvider",
     "paymentStatus",
     "shortId",
     "voucherCode",
     "voucherCurrency",
     "voucherStatus",
     "voucherValue"
   ]
}
```

#### 4.2.6.12 i18 internationalization

✓ Retrieves i18next json based on requested language

## 4.2.6.12.1 i18 request

```
GET api/rest/v1/content/i18next.json/de HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

# 4.3 Edge Service

The Edge Service provides the interface between the public REST API and internal AMQP API.

#### 4.3.1 TODO

## 4.3.1.1 TODO version 1.0

 $\checkmark$  [x] Test environment and credentials



- √ [x] specify voucher content fields
- √ [x] specify voucher pricing fields
- $\checkmark$  [x] specify payment method fields

#### 4.3.1.2 TODO version 1.0-next

- ✓ [] refactor entities and apply relationships
- √ [] provide full resource schemas
- ✓ [] enforce validation of resource schemas

## 4.3.2 Test environment and credentials

#### TODO

Username	Password	Description
test@test.org	test	just protected
test@gmail.com	test	just testing
testtest	test	qa

# 4.3.3 Edge Service Registry

The Edge Service Registry is responsible to maintain an index of all currently available Edge Services and configure all its known [Load-Balancers] accordingly.

As of writing no hosting solution has been chosen yet. Therefor the actual API which is used to configure the load-balancers remains unspecified for now.

All Edge Service Instances **must** register themselves on the registry on startup and unregister on shutdown.

#### 4.3.4 Edge Service Relay

Every Edge Service will be provided with a local relay connecting its instances to the central Message Broker cluster. The message exchange routing of the relay is configured in such a way, that only messages relevant to its connected Edge Services is routed to it from the broker cluster.

See [Message Relay] for more information.

## 4.3.5 Edge Service Client

Each Service that is to be served by the Edge Service is represented by a so-called Edge Service Client. It is responsible to provide the implementation of the public REST API for that given service.



#### 4.3.6 ReST API

The Edge Service API acts as translation layer between the Services and the Frontend. The actual logic is implemented in separate [Edge Service Client]s for each individual Service consumed by the API or API endpoint provided by the API, respectively.

All public-facing endpoints **must** adhere to the [JSONAPI] specification and be subject to strict [Access Control].

#### 4.3.6.1 Login

# 4.3.6.1.1 Login request

Variables Description Example

ICP\_SHOP\_ID see [Test environment and

credentials]

ICP\_SHOP\_PASSPHRASE see [Test environment and

credentials]

ICP\_SHOP\_DIGEST Derived from \${ICP\_SHOP\_ID} MzAwMDAwMTY6dG9wLXNIY3JI

and \${ICP\_SHOP\_PASSPHRASE} dC1wYXNzcGhyYXNI

POST /api/rest/v1/auth/login HTTP/1.1
Authorization: Basic \${ICP\_SHOP\_DIGEST}

Accept: application/vnd.api+json

# 4.3.6.1.2 Login response

HTTP/1.1 201 Created

Content-Type: application/vnd.api+json

### 4.3.6.1.3 Cookies

Name Value Domain Path Expires HttpOnly Secure

SESSION MmQ5ZjkxO master.env.a / Seassion true false

GltMTM4My0 pi.shop1.roc

0M2E0LWI1M ks DYtYmUwZjY wMzJiZDY5

## 4.3.6.2 Logout

# 4.3.6.2.1 Logout request

Variables Description Example



POST /api/rest/v1/auth/logout HTTP/1.1

Authorization: No Auth

Accept: application/vnd.api+json

# 4.3.6.2.2 Logout response

HTTP/1.1 204 No Content

# 4.3.6.3 Voucher list

See [VoucherWebList] method in the [Mimas integration] documentation for the source of these fields.



# 4.3.6.3.1 Voucher list request

GET /api/rest/v1/vouchers HTTP/1.1

Authorization: No Auth

Accept: application/vnd.api+json

# 4.3.6.3.2 Voucher list response

HTTP/1.1 200 OK

Content-Type: application/vnd.api+json



```
"data":[
  {
      "id": "f634f09f-9a06-4297-a326-0d703938b702",
      "type": "voucher",
      "attributes":{
         "code": "LEBALLINNL10",
         "currency": "EUR",
         "ean-code": "8717472242211",
         "encryption-type":0,
         "kind":0,
         "name": "Lebara All-in NL 10 EUR",
         "provider-code":"LEBARA",
         "provider-name":"Lebara",
         "short-name": "All-in NL 10",
         "value":10.0,
         "price-total":11.99,
         "price-tax":0.00,
         "price-fee":1.99,
         "payment-methods": {
            "wirecard-creditcard":{
               "name": "Credit Card",
               "provider-name": "Wirecard",
               "image-url": "https://wirecard.com/logo.png"
            "wirecard-paypal":{
               "name":"PayPal",
               "provider-name":"Wirecard"
            }
         }
     }
  },
      "id": "a3473e20-19b4-44fe-8389-67a511854759",
      "type":"voucher",
      "attributes":{
         "code": "LEBALLINNL15",
         "currency":"EUR",
         "ean-code": "8717472242129",
         "encryption-type":0,
         "kind":0,
         "name":"Lebara All-in NL 15 EUR",
         "provider-code": "LEBARA",
         "provider-name": "Lebara",
         "short-name": "All-in NL 15",
         "value":15.0,
         "price-total":16.99,
         "price-tax":0.00,
         "price-fee":1.99,
         "payment-methods":[
            "wirecard-creditcard":{
               "name": "Credit Card",
               "provider-name": "Wirecard",
               "image-url": "https://wirecard.com/logo.png"
            "wirecard-paypal":{
```



# 4.3.6.4 Voucher detail



## 4.3.6.4.1 Voucher detail request

```
GET /api/rest/v1/vouchers/:voucher-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

4.3.6.4.2 Voucher detail response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
{
    "data":{
       "id":"f634f09f-9a06-4297-a326-0d703938b702",
       "type": "voucher",
       "attributes":{
          "code": "LEBALLINNL10",
          "currency":"EUR",
          "ean-code": "8717472242211",
          "encryption-type":0,
          "kind":0,
          "name": "Lebara All-in NL 10 EUR",
          "provider-code":"LEBARA",
          "provider-name": "Lebara",
          "short-name": "All-in NL 10",
          "value":10.0,
          "price-total":11.99,
          "price-tax":0.00,
          "price-fee":1.99,
          "payment-methods": {
             "wirecard-creditcard":{
                "name":"Credit Card",
                "provider-name": "Wirecard",
                "image-url":"https://wirecard.com/logo.png"
             "wirecard-paypal":{
                "name": "PayPal",
                "provider-name": "Wirecard"
          }
       }
    }
}
```

## 4.3.6.5 Voucher order

See [VoucherWebReserve] method in the [Mimas integration] documentation for the source of these fields.

```
4.3.6.5.1 Voucher order request
| Variables | Description | Example | | -------| -------
```



```
POST /api/rest/v1/voucher-orders HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
{
   "data": {
    "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
      "voucher-code": "VODADE15"
       "payment-method": "Wirecard VISA",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "provider-text-url": "https://provider.texts",
       "order-success-redirect-url": "/success",
       "order-failed-redirect-url": "failed",
       "order-canceled-redirect-url": "/cancel"
     }
  }
}
```

field name	type	constrains	description	example
id	UUID	globally unique	globally unique UUID	c91feaf3-5968- 4b60-aa5b- 62fe7fdd905c
type	string	n/a	type of request, must be "voucher- order", "voucher- order"	
voucher-code	string	n/a	code of the voucher gathered from voucher list	"VODADE15"
payment-method	string	n/a	on of the allowed methods for the voucher, denoted in voucher list response	"Wirecard VISA"
notification-type	string	currently only "email" is supported	type of the notification target	"email"
notification-target	string	n/a	target adress	"[me@my- email.com] (mailto:me@my- email.com)"



field name	type	constrains	description	example
order-success- redirect-url	string	valid URL	Where the wirecard should redirect if payment was successfull	protect
order-failed- redirect-url	string	valid URL	Where the wirecard should redirect if payment fails	protect
order-canceled- redirect-url	string	valid URL	Where the wirecard should redirect if payment was canceled	protect

4.3.6.5.2 Voucher order response

```
HTTP/1.1 201 Created
Content-Type: application/vnd.api+json
   "data": {
    "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
       "notification-status": "pending",
       "confirmation-status": "pending",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "payment-provider": "wirecard",
       "payment-redirect-url": "https://wpp-test.wirecard.com/?wPaymentToken=y93bki675x2CdKP8-
h0mLD2zDgf26ptjxSNRiKFiIlM",
       "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
       "payment-status": "pending",
       "payment-method": "creditcard",
       "voucher-code": "LEBALLINNL10",
       "voucher-currency": "EUR",
       "voucher-value": 10.0
       "voucher-status": "pending",
       "order-price-total": 11.99,
       "order-tax-total": 0.00,
       "order-fee-total": 0.99,
       "order-status": "pending",
       "serial-number": "1234",
       "confirmation-date": "0",
       "batch-number": "1234"
    }
  }
}
```

## 4.3.6.6 Voucher order detail



## 4.3.6.6.1 Voucher order detail request

```
GET /api/rest/v1/voucher-orders/:order-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

4.3.6.6.2 Voucher order detail response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
   "data": {
     "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
       "notification-status": "pending",
       "confirmation-status": "pending",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "payment-provider": "wirecard",
       "payment-redirect-url": "https://wpp-test.wirecard.com/?wPaymentToken=y93bki675x2CdKP8-
h0mLD2zDgf26ptjxSNRiKFiIlM",
       "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
       "payment-status": "pending",
       "payment-method": "creditcard",
       "voucher-code": "LEBALLINNL10",
       "voucher-currency": "EUR",
       "voucher-value": 10.0
       "voucher-status": "pending",
       "order-price-total": 11.99,
       "order-tax-total": 0.00,
       "order-fee-total": 1.99,
       "order-status": "pending",
       "serial-number": "1234",
       "confirmation-date": "1611313953175"
    }
  }
}
```

## 4.3.6.7 Provider Text

See [GetProvicerTexts] method in the [Mimas integration] documentation for the source of these fields.

# 4.3.6.7.1 Provider Text request

**Variables** Description Example



```
GET /api/rest/v1/provider-texts/ HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json

GET /api/rest/v1/provider-texts/:provider-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

## 4.3.6.7.2 Provider Text response

```
HTTP/1.1 201 Created
Content-Type: application/vnd.api+json
{
   "data": [
       "id": "f74bb480-d6df-47ad-8a17-8d7b1b176661",
       "type": "voucher-text",
       "attributes": {
         "provider-code": "ABOUTYOU",
         "kind": "title",
         "title": "Produktname",
         "body": "About You-Geschenkkarte"
       }
     },
       "id": "a598bf3b-abe0-4fc4-80fa-135a84510c81",
       "type": "voucher-text",
       "attributes": {
         "provider-code": "ABOUTYOU",
         "kind": "subtitle",
         "title": "Slogan",
         "body": "Hol Dir per E-Mail eine About You-Geschenkkarte."
       }
     }
   ]
}
```

#### 4.3.6.8 Content

See [Content Service] for more information on the source of these fields.

# 4.3.6.8.1 Content request

Variables Description Example



```
GET /api/rest/v1/content/i18next.json HTTP/1.1
Authorization: No Auth
Accept: application/json
```

# 4.3.6.8.2 Content response

```
HTTP/1.1 200 OK
Content-Type: application/json
{
   "en": {
     "world.hello": "Hello, World!",
     "example.text": "Lorem ipsum dolor sit amet...",
     "button.cancel": "Cancel",
     "radio.options": {
      "option-1": "Selection 1",
       "option-2": "Selection 2",
    }
   },
   "de": {
     "world.hello": "Hallo, Welt!",
     "example.text": "Lorem ipsum dolor sit amet...",
     "button.cancel": "Abbrechen"
     "radio.options": {
       "option-1": "Auswahl 1",
       "option-2": "Auswahl 2",
   }
}
```

## 4.3.6.9 Verification

See for more information on the source of these fields.



4.3.6.9.1 Verification request by phone number

```
POST /api/rest/v1/auth/phone-number-verification HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json

{
   "data": {
      "id": "38f4dfef-9baa-4302-831f-e41df4ce4084",
      "type": "phone-number-verification",
      "attributes": {
      "phone-number": "+381691994655",
      "sms-confirmation-code": "716569"
      }
   }
}
```

4.3.6.9.2 Verification by phone number response

```
HTTP/1.1 200 OK
Content-Type: application/json

{
    "data": {
        "type": "phone-number-verification",
        "attributes": {
            "phone-number": "+381691994655",
            "ok": false,
            "remaining-number-of-attempts": 4,
            "remaining-expiration-time": 0
        }
    }
}
```

4.3.6.9.3 Verification request by sms

```
POST /api/rest/v1/auth/sms-verification-code HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json

{
    "data": {
        "id": "48f4dfef-9baa-4302-831f-e41df4ce4084",
        "type": "sms-verification-code",
        "attributes": {
            "phone-number": "+381691994655"
        }
    }
}
```

4.3.6.9.4 Verification by sms number response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
```



```
{
  "data": {
    "type": "sms-verification-code",
    "attributes": {
        "phone-number": "+381691994655",
        "ok": true,
        "remaining-number-of-attempts": 2,
        "remaining-delay-time": 20,
        "remaining-expiration-time": 1800
    }
}
```

#### 4.3.6.10 Cookies

#### 4.3.6.10.1 Cookies request

```
POST /api/rest/v1/cookies HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
   "data": [
       "type": "cookie",
       "id": "shopId",
       "attributes": {
         "name": "shopId",
         "value": "1234"
       }
     },
       "type": "cookie",
       "id": "ns_dev_id",
       "attributes": {
         "name": "ns_dev_id",
         "value": "device_id"
       }
     }
   ]
}
```

# 4.3.6.10.2 Cookies response

```
HTTP/1.1 200 OK
```

## 4.3.6.11 Documentation

Returns list of Json Schemas for request and response for requested rest endpoint. Use exact endpoint plus schema url parameter. For example, /api/rest/v1/vouchers?schema will return json schemas for /api/rest/v1/vouchers endpoint.



# 4.3.6.11.1 Documentation request

```
GET /api/rest/v1/vouchers?schema HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

# 4.3.6.11.2 Documentation response

Complete Response is omitted because of size, here is just a part:

```
HTTP/1.1 200 OK
   "required": [
     "createdDate",
     "notificationStatus",
     "notificationTarget",
     "notificationType",
     "orderFeeTotal",
     "orderPriceTotal",
     "orderStatus",
     "orderTaxTotal",
     "paymentMethod",
     "paymentProvider",
     "paymentStatus",
     "shortId",
     "voucherCode",
     "voucherCurrency",
     "voucherStatus",
     "voucherValue"
   ]
}
```

#### 4.3.6.12 i18 internationalization

✓ Retrieves i18next json based on requested language

## 4.3.6.12.1 i18 request

```
GET api/rest/v1/content/i18next.json/de HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

# 4.4 Edge Service

The Edge Service provides the interface between the public REST API and internal AMQP API.

#### 4.4.1 TODO

#### 4.4.1.1 TODO version 1.0

 $\checkmark$  [x] Test environment and credentials



- ✓ [x] specify voucher content fields
- √ [x] specify voucher pricing fields
- $\checkmark$  [x] specify payment method fields

#### 4.4.1.2 TODO version 1.0-next

- ✓ [] refactor entities and apply relationships
- √ [] provide full resource schemas
- ✓ [] enforce validation of resource schemas

## 4.4.2 Test environment and credentials

#### TODO

Username	Password	Description
test@test.org	test	just protected
test@gmail.com	test	just testing
testtest	test	qa

# 4.4.3 Edge Service Registry

The Edge Service Registry is responsible to maintain an index of all currently available Edge Services and configure all its known [Load-Balancers] accordingly.

As of writing no hosting solution has been chosen yet. Therefor the actual API which is used to configure the load-balancers remains unspecified for now.

All Edge Service Instances **must** register themselves on the registry on startup and unregister on shutdown.

#### 4.4.4 Edge Service Relay

Every Edge Service will be provided with a local relay connecting its instances to the central Message Broker cluster. The message exchange routing of the relay is configured in such a way, that only messages relevant to its connected Edge Services is routed to it from the broker cluster.

See [Message Relay] for more information.

## 4.4.5 Edge Service Client

Each Service that is to be served by the Edge Service is represented by a so-called Edge Service Client. It is responsible to provide the implementation of the public REST API for that given service.



#### 4.4.6 ReST API

The Edge Service API acts as translation layer between the Services and the Frontend. The actual logic is implemented in separate [Edge Service Client]s for each individual Service consumed by the API or API endpoint provided by the API, respectively.

All public-facing endpoints **must** adhere to the [JSONAPI] specification and be subject to strict [Access Control].

#### 4.4.6.1 Login

# 4.4.6.1.1 Login request

Variables Description Example

ICP\_SHOP\_ID see [Test environment and

credentials]

ICP\_SHOP\_PASSPHRASE see [Test environment and

credentials]

ICP\_SHOP\_DIGEST Derived from \${ICP\_SHOP\_ID} MzAwMDAwMTY6dG9wLXNIY3JI

and \${ICP\_SHOP\_PASSPHRASE} dC1wYXNzcGhyYXNI

POST /api/rest/v1/auth/login HTTP/1.1
Authorization: Basic \${ICP\_SHOP\_DIGEST}

Accept: application/vnd.api+json

# 4.4.6.1.2 Login response

HTTP/1.1 201 Created

Content-Type: application/vnd.api+json

### 4.4.6.1.3 Cookies

Name Value Domain Path Expires HttpOnly Secure

SESSION MmQ5ZjkxO master.env.a / Seassion true false

GltMTM4My0 pi.shop1.roc

0M2E0LWI1M ks DYtYmUwZjY wMzJiZDY5

## 4.4.6.2 Logout

# 4.4.6.2.1 Logout request

Variables Description Example



POST /api/rest/v1/auth/logout HTTP/1.1

Authorization: No Auth

Accept: application/vnd.api+json

# 4.4.6.2.2 Logout response

HTTP/1.1 204 No Content

# 4.4.6.3 Voucher list

See [VoucherWebList] method in the [Mimas integration] documentation for the source of these fields.



# 4.4.6.3.1 Voucher list request

GET /api/rest/v1/vouchers HTTP/1.1

Authorization: No Auth

Accept: application/vnd.api+json

# 4.4.6.3.2 Voucher list response

HTTP/1.1 200 OK

Content-Type: application/vnd.api+json



```
"data":[
  {
      "id": "f634f09f-9a06-4297-a326-0d703938b702",
      "type": "voucher",
      "attributes":{
         "code": "LEBALLINNL10",
         "currency": "EUR",
         "ean-code": "8717472242211",
         "encryption-type":0,
         "kind":0,
         "name": "Lebara All-in NL 10 EUR",
         "provider-code":"LEBARA",
         "provider-name":"Lebara",
         "short-name": "All-in NL 10",
         "value":10.0,
         "price-total":11.99,
         "price-tax":0.00,
         "price-fee":1.99,
         "payment-methods": {
            "wirecard-creditcard":{
               "name": "Credit Card",
               "provider-name": "Wirecard",
               "image-url": "https://wirecard.com/logo.png"
            "wirecard-paypal":{
               "name":"PayPal",
                "provider-name":"Wirecard"
            }
         }
      }
  },
      "id": "a3473e20-19b4-44fe-8389-67a511854759",
      "type": "voucher",
      "attributes":{
         "code": "LEBALLINNL15",
         "currency":"EUR",
         "ean-code": "8717472242129",
         "encryption-type":0,
         "kind":0,
         "name":"Lebara All-in NL 15 EUR",
         "provider-code": "LEBARA",
         "provider-name": "Lebara",
         "short-name": "All-in NL 15",
         "value":15.0,
         "price-total":16.99,
         "price-tax":0.00,
         "price-fee":1.99,
         "payment-methods":[
            "wirecard-creditcard":{
               "name": "Credit Card",
               "provider-name": "Wirecard",
               "image-url": "https://wirecard.com/logo.png"
            "wirecard-paypal":{
```



# 4.4.6.4 Voucher detail



## 4.4.6.4.1 Voucher detail request

```
GET /api/rest/v1/vouchers/:voucher-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

4.4.6.4.2 Voucher detail response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
{
    "data":{
       "id":"f634f09f-9a06-4297-a326-0d703938b702",
       "type": "voucher",
       "attributes":{
          "code": "LEBALLINNL10",
          "currency": "EUR",
          "ean-code": "8717472242211",
          "encryption-type":0,
          "kind":0,
          "name": "Lebara All-in NL 10 EUR",
          "provider-code":"LEBARA",
          "provider-name": "Lebara",
          "short-name": "All-in NL 10",
          "value":10.0,
          "price-total":11.99,
          "price-tax":0.00,
          "price-fee":1.99,
          "payment-methods": {
             "wirecard-creditcard":{
                "name":"Credit Card",
                "provider-name": "Wirecard",
                "image-url":"https://wirecard.com/logo.png"
             "wirecard-paypal":{
                "name": "PayPal",
                "provider-name":"Wirecard"
             }
          }
       }
    }
}
```

## 4.4.6.5 Voucher order

See [VoucherWebReserve] method in the [Mimas integration] documentation for the source of these fields.

```
4.4.6.5.1 Voucher order request
| Variables | Description | Example | | -------| -------
```



```
POST /api/rest/v1/voucher-orders HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
{
   "data": {
    "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
      "voucher-code": "VODADE15"
       "payment-method": "Wirecard VISA",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "provider-text-url": "https://provider.texts",
       "order-success-redirect-url": "/success",
       "order-failed-redirect-url": "failed",
       "order-canceled-redirect-url": "/cancel"
     }
  }
}
```

field name	type	constrains	description	example
id	UUID	globally unique	globally unique UUID	c91feaf3-5968- 4b60-aa5b- 62fe7fdd905c
type	string	n/a	type of request, must be "voucher- order", "voucher- order"	
voucher-code	string	n/a	code of the voucher gathered from voucher list	"VODADE15"
payment-method	string	n/a	on of the allowed methods for the voucher, denoted in voucher list response	"Wirecard VISA"
notification-type	string	currently only "email" is supported	type of the notification target	"email"
notification-target	string	n/a	target adress	"[me@my- email.com] (mailto:me@my- email.com)"



field name	type	constrains	description	example
order-success- redirect-url	string	valid URL	Where the wirecard should redirect if payment was successfull	protect
order-failed- redirect-url	string	valid URL	Where the wirecard should redirect if payment fails	protect
order-canceled- redirect-url	string	valid URL	Where the wirecard should redirect if payment was canceled	protect

4.4.6.5.2 Voucher order response

```
HTTP/1.1 201 Created
Content-Type: application/vnd.api+json
   "data": {
    "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
       "notification-status": "pending",
       "confirmation-status": "pending",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "payment-provider": "wirecard",
       "payment-redirect-url": "https://wpp-test.wirecard.com/?wPaymentToken=y93bki675x2CdKP8-
h0mLD2zDgf26ptjxSNRiKFiIlM",
       "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
       "payment-status": "pending",
       "payment-method": "creditcard",
       "voucher-code": "LEBALLINNL10",
       "voucher-currency": "EUR",
       "voucher-value": 10.0
       "voucher-status": "pending",
       "order-price-total": 11.99,
       "order-tax-total": 0.00,
       "order-fee-total": 0.99,
       "order-status": "pending",
       "serial-number": "1234",
       "confirmation-date": "0",
       "batch-number": "1234"
    }
  }
}
```

## 4.4.6.6 Voucher order detail



## 4.4.6.6.1 Voucher order detail request

```
GET /api/rest/v1/voucher-orders/:order-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

4.4.6.6.2 Voucher order detail response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
   "data": {
     "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
       "notification-status": "pending",
       "confirmation-status": "pending",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "payment-provider": "wirecard",
       "payment-redirect-url": "https://wpp-test.wirecard.com/?wPaymentToken=y93bki675x2CdKP8-
h0mLD2zDgf26ptjxSNRiKFiIlM",
       "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
       "payment-status": "pending",
       "payment-method": "creditcard",
       "voucher-code": "LEBALLINNL10",
       "voucher-currency": "EUR",
       "voucher-value": 10.0
       "voucher-status": "pending",
       "order-price-total": 11.99,
       "order-tax-total": 0.00,
       "order-fee-total": 1.99,
       "order-status": "pending",
       "serial-number": "1234",
       "confirmation-date": "1611313953175"
    }
  }
}
```

## 4.4.6.7 Provider Text

See [GetProvicerTexts] method in the [Mimas integration] documentation for the source of these fields.

# 4.4.6.7.1 Provider Text request

Variables Description Example



```
GET /api/rest/v1/provider-texts/ HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json

GET /api/rest/v1/provider-texts/:provider-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

## 4.4.6.7.2 Provider Text response

```
HTTP/1.1 201 Created
Content-Type: application/vnd.api+json
{
   "data": [
       "id": "f74bb480-d6df-47ad-8a17-8d7b1b176661",
       "type": "voucher-text",
       "attributes": {
         "provider-code": "ABOUTYOU",
         "kind": "title",
         "title": "Produktname",
         "body": "About You-Geschenkkarte"
       }
     },
       "id": "a598bf3b-abe0-4fc4-80fa-135a84510c81",
       "type": "voucher-text",
       "attributes": {
         "provider-code": "ABOUTYOU",
         "kind": "subtitle",
         "title": "Slogan",
         "body": "Hol Dir per E-Mail eine About You-Geschenkkarte."
       }
     }
   ]
}
```

#### 4.4.6.8 Content

See [Content Service] for more information on the source of these fields.

## 4.4.6.8.1 Content request

Variables Description Example



```
GET /api/rest/v1/content/i18next.json HTTP/1.1
Authorization: No Auth
Accept: application/json
```

# 4.4.6.8.2 Content response

```
HTTP/1.1 200 OK
Content-Type: application/json
{
   "en": {
     "world.hello": "Hello, World!",
     "example.text": "Lorem ipsum dolor sit amet...",
     "button.cancel": "Cancel",
     "radio.options": {
      "option-1": "Selection 1",
       "option-2": "Selection 2",
     }
   },
   "de": {
     "world.hello": "Hallo, Welt!",
     "example.text": "Lorem ipsum dolor sit amet...",
     "button.cancel": "Abbrechen"
     "radio.options": {
       "option-1": "Auswahl 1",
       "option-2": "Auswahl 2",
   }
}
```

## 4.4.6.9 Verification

See for more information on the source of these fields.



4.4.6.9.1 Verification request by phone number

```
POST /api/rest/v1//auth/phone-number-verification HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json

{
    "data": {
        "id": "38f4dfef-9baa-4302-831f-e41df4ce4084",
        "type": "phone-number-verification",
        "attributes": {
            "phone-number": "+381691994655",
            "sms-confirmation-code": "716569"
        }
    }
}
```

4.4.6.9.2 Verification by phone number response

```
HTTP/1.1 200 OK
Content-Type: application/json

{
    "data": {
        "type": "phone-number-verification",
        "attributes": {
            "phone-number": "+381691994655",
            "ok": false,
            "remaining-number-of-attempts": 4,
            "remaining-expiration-time": 0
        }
    }
}
```

4.4.6.9.3 Verification request by sms

4.4.6.9.4 Verification by sms number response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
```



```
{
  "data": {
    "type": "sms-verification-code",
    "attributes": {
        "phone-number": "+381691994655",
        "ok": true,
        "remaining-number-of-attempts": 2,
        "remaining-delay-time": 20,
        "remaining-expiration-time": 1800
    }
}
```

#### 4.4.6.10 Cookies

# 4.4.6.10.1 Cookies request

```
POST /api/rest/v1/cookies HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
   "data": [
       "type": "cookie",
       "id": "shopId",
       "attributes": {
         "name": "shopId",
         "value": "1234"
       }
     },
       "type": "cookie",
       "id": "ns_dev_id",
       "attributes": {
         "name": "ns_dev_id",
         "value": "device_id"
       }
     }
   ]
}
```

# 4.4.6.10.2 Cookies response

```
HTTP/1.1 200 OK
```

#### 4.4.6.11 Documentation

Returns list of Json Schemas for request and response for requested rest endpoint. Use exact endpoint plus schema url parameter. For example, /api/rest/v1/vouchers?schema will return json schemas for /api/rest/v1/vouchers endpoint.



#### 4.4.6.11.1 Documentation request

```
GET /api/rest/v1/vouchers?schema HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

# 4.4.6.11.2 Documentation response

Complete Response is omitted because of size, here is just a part:

```
HTTP/1.1 200 OK
   "required": [
     "createdDate",
     "notificationStatus",
     "notificationTarget",
     "notificationType",
     "orderFeeTotal",
     "orderPriceTotal",
     "orderStatus",
     "orderTaxTotal",
     "paymentMethod",
     "paymentProvider",
     "paymentStatus",
     "shortId",
     "voucherCode",
     "voucherCurrency",
     "voucherStatus",
     "voucherValue"
   ]
}
```

#### 4.4.6.12 i18 internationalization

✓ Retrieves i18next json based on requested language

## 4.4.6.12.1 i18 request

```
GET api/rest/v1/content/i18next.json/de HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

# 4.5 Edge Service

The Edge Service provides the interface between the public REST API and internal AMQP API.

#### 4.5.1 TODO

#### 4.5.1.1 TODO version 1.0

 $\checkmark$  [x] Test environment and credentials



- ✓ [x] specify voucher content fields
- √ [x] specify voucher pricing fields
- $\checkmark$  [x] specify payment method fields

#### 4.5.1.2 TODO version 1.0-next

- ✓ [] refactor entities and apply relationships
- √ [] provide full resource schemas
- ✓ [] enforce validation of resource schemas

## 4.5.2 Test environment and credentials

#### TODO

Username	Password	Description
test@test.org	test	just protected
test@gmail.com	test	just testing
testtest	test	qa

## 4.5.3 Edge Service Registry

The Edge Service Registry is responsible to maintain an index of all currently available Edge Services and configure all its known [Load-Balancers] accordingly.

As of writing no hosting solution has been chosen yet. Therefor the actual API which is used to configure the load-balancers remains unspecified for now.

All Edge Service Instances **must** register themselves on the registry on startup and unregister on shutdown.

#### 4.5.4 Edge Service Relay

Every Edge Service will be provided with a local relay connecting its instances to the central Message Broker cluster. The message exchange routing of the relay is configured in such a way, that only messages relevant to its connected Edge Services is routed to it from the broker cluster.

See [Message Relay] for more information.

## 4.5.5 Edge Service Client

Each Service that is to be served by the Edge Service is represented by a so-called Edge Service Client. It is responsible to provide the implementation of the public REST API for that given service.



#### 4.5.6 ReST API

The Edge Service API acts as translation layer between the Services and the Frontend. The actual logic is implemented in separate [Edge Service Client]s for each individual Service consumed by the API or API endpoint provided by the API, respectively.

All public-facing endpoints **must** adhere to the [JSONAPI] specification and be subject to strict [Access Control].

#### 4.5.6.1 Login

# 4.5.6.1.1 Login request

Variables Description Example

ICP\_SHOP\_ID see [Test environment and

credentials]

ICP\_SHOP\_PASSPHRASE see [Test environment and

credentials]

ICP\_SHOP\_DIGEST Derived from \${ICP\_SHOP\_ID} MzAwMDAwMTY6dG9wLXNIY3JI

and \${ICP\_SHOP\_PASSPHRASE} dC1wYXNzcGhyYXNI

POST /api/rest/v1/auth/login HTTP/1.1
Authorization: Basic \${ICP\_SHOP\_DIGEST}

Accept: application/vnd.api+json

## 4.5.6.1.2 Login response

HTTP/1.1 201 Created

Content-Type: application/vnd.api+json

### 4.5.6.1.3 Cookies

Name Value Domain Path Expires HttpOnly Secure

SESSION MmQ5ZjkxO master.env.a / Seassion true false

GltMTM4My0 pi.shop1.roc

0M2E0LWI1M ks DYtYmUwZjY wMzJiZDY5

## 4.5.6.2 Logout

# 4.5.6.2.1 Logout request

Variables Description Example



POST /api/rest/v1/auth/logout HTTP/1.1

Authorization: No Auth

Accept: application/vnd.api+json

## 4.5.6.2.2 Logout response

HTTP/1.1 204 No Content

## 4.5.6.3 Voucher list

See [VoucherWebList] method in the [Mimas integration] documentation for the source of these fields.



# 4.5.6.3.1 Voucher list request

GET /api/rest/v1/vouchers HTTP/1.1

Authorization: No Auth

Accept: application/vnd.api+json

## 4.5.6.3.2 Voucher list response

HTTP/1.1 200 OK

Content-Type: application/vnd.api+json



```
"data":[
  {
      "id": "f634f09f-9a06-4297-a326-0d703938b702",
      "type": "voucher",
      "attributes":{
         "code": "LEBALLINNL10",
         "currency": "EUR",
         "ean-code": "8717472242211",
         "encryption-type":0,
         "kind":0,
         "name": "Lebara All-in NL 10 EUR",
         "provider-code":"LEBARA",
         "provider-name":"Lebara",
         "short-name": "All-in NL 10",
         "value":10.0,
         "price-total":11.99,
         "price-tax":0.00,
         "price-fee":1.99,
         "payment-methods": {
            "wirecard-creditcard":{
               "name": "Credit Card",
               "provider-name": "Wirecard",
               "image-url": "https://wirecard.com/logo.png"
            "wirecard-paypal":{
               "name":"PayPal",
               "provider-name":"Wirecard"
            }
         }
      }
  },
      "id": "a3473e20-19b4-44fe-8389-67a511854759",
      "type":"voucher",
      "attributes":{
         "code": "LEBALLINNL15",
         "currency":"EUR",
         "ean-code": "8717472242129",
         "encryption-type":0,
         "kind":0,
         "name":"Lebara All-in NL 15 EUR",
         "provider-code": "LEBARA",
         "provider-name": "Lebara",
         "short-name": "All-in NL 15",
         "value":15.0,
         "price-total":16.99,
         "price-tax":0.00,
         "price-fee":1.99,
         "payment-methods":[
            "wirecard-creditcard":{
               "name": "Credit Card",
               "provider-name": "Wirecard",
               "image-url": "https://wirecard.com/logo.png"
            "wirecard-paypal":{
```



# 4.5.6.4 Voucher detail



### 4.5.6.4.1 Voucher detail request

```
GET /api/rest/v1/vouchers/:voucher-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

4.5.6.4.2 Voucher detail response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
{
    "data":{
       "id":"f634f09f-9a06-4297-a326-0d703938b702",
       "type": "voucher",
       "attributes":{
          "code": "LEBALLINNL10",
          "currency":"EUR",
          "ean-code": "8717472242211",
          "encryption-type":0,
          "kind":0,
          "name": "Lebara All-in NL 10 EUR",
          "provider-code":"LEBARA",
          "provider-name": "Lebara",
          "short-name": "All-in NL 10",
          "value":10.0,
          "price-total":11.99,
          "price-tax":0.00,
          "price-fee":1.99,
          "payment-methods": {
             "wirecard-creditcard":{
                "name": "Credit Card",
                "provider-name": "Wirecard",
                "image-url":"https://wirecard.com/logo.png"
             "wirecard-paypal":{
                "name": "PayPal",
                "provider-name": "Wirecard"
             }
          }
       }
    }
}
```

### 4.5.6.5 Voucher order

See [VoucherWebReserve] method in the [Mimas integration] documentation for the source of these fields.

```
4.5.6.5.1 Voucher order request
| Variables | Description | Example | | -------| -------
```



```
POST /api/rest/v1/voucher-orders HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
{
   "data": {
    "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
      "voucher-code": "VODADE15"
       "payment-method": "Wirecard VISA",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "provider-text-url": "https://provider.texts",
       "order-success-redirect-url": "/success",
       "order-failed-redirect-url": "failed",
       "order-canceled-redirect-url": "/cancel"
     }
  }
}
```

field name	type	constrains	description	example
id	UUID	globally unique	globally unique UUID	c91feaf3-5968- 4b60-aa5b- 62fe7fdd905c
type	string	n/a	type of request, must be "voucher- order", "voucher- order"	
voucher-code	string	n/a	code of the voucher gathered from voucher list	"VODADE15"
payment-method	string	n/a	on of the allowed methods for the voucher, denoted in voucher list response	"Wirecard VISA"
notification-type	string	currently only "email" is supported	type of the notification target	"email"
notification-target	string	n/a	target adress	"[me@my- email.com] (mailto:me@my- email.com)"



field name	type	constrains	description	example
order-success- redirect-url	string	valid URL	Where the wirecard should redirect if payment was successfull	protect
order-failed- redirect-url	string	valid URL	Where the wirecard should redirect if payment fails	protect
order-canceled- redirect-url	string	valid URL	Where the wirecard should redirect if payment was canceled	protect

4.5.6.5.2 Voucher order response

```
HTTP/1.1 201 Created
Content-Type: application/vnd.api+json
   "data": {
    "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
       "notification-status": "pending",
       "confirmation-status": "pending",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "payment-provider": "wirecard",
       "payment-redirect-url": "https://wpp-test.wirecard.com/?wPaymentToken=y93bki675x2CdKP8-
h0mLD2zDgf26ptjxSNRiKFiIlM",
       "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
       "payment-status": "pending",
       "payment-method": "creditcard",
       "voucher-code": "LEBALLINNL10",
       "voucher-currency": "EUR",
       "voucher-value": 10.0
       "voucher-status": "pending",
       "order-price-total": 11.99,
       "order-tax-total": 0.00,
       "order-fee-total": 0.99,
       "order-status": "pending",
       "serial-number": "1234",
       "confirmation-date": "0",
       "batch-number": "1234"
    }
  }
}
```

### 4.5.6.6 Voucher order detail



### 4.5.6.6.1 Voucher order detail request

```
GET /api/rest/v1/voucher-orders/:order-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

4.5.6.6.2 Voucher order detail response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
   "data": {
     "id": "c91feaf3-5968-4b60-aa5b-62fe7fdd905c",
     "type": "voucher-order",
     "attributes": {
       "notification-status": "pending",
       "confirmation-status": "pending",
       "notification-type": "email",
       "notification-target": "me@my-email.com",
       "payment-provider": "wirecard",
       "payment-redirect-url": "https://wpp-test.wirecard.com/?wPaymentToken=y93bki675x2CdKP8-
h0mLD2zDgf26ptjxSNRiKFiIlM",
       "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
       "payment-status": "pending",
       "payment-method": "creditcard",
       "voucher-code": "LEBALLINNL10",
       "voucher-currency": "EUR",
       "voucher-value": 10.0
       "voucher-status": "pending",
       "order-price-total": 11.99,
       "order-tax-total": 0.00,
       "order-fee-total": 1.99,
       "order-status": "pending",
       "serial-number": "1234",
       "confirmation-date": "1611313953175"
    }
  }
}
```

### 4.5.6.7 Provider Text

See [GetProvicerTexts] method in the [Mimas integration] documentation for the source of these fields.

## 4.5.6.7.1 Provider Text request

Variables Description Example



```
GET /api/rest/v1/provider-texts/ HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json

GET /api/rest/v1/provider-texts/:provider-id HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

### 4.5.6.7.2 Provider Text response

```
HTTP/1.1 201 Created
Content-Type: application/vnd.api+json
{
   "data": [
       "id": "f74bb480-d6df-47ad-8a17-8d7b1b176661",
       "type": "voucher-text",
       "attributes": {
         "provider-code": "ABOUTYOU",
         "kind": "title",
         "title": "Produktname",
         "body": "About You-Geschenkkarte"
       }
     },
       "id": "a598bf3b-abe0-4fc4-80fa-135a84510c81",
       "type": "voucher-text",
       "attributes": {
         "provider-code": "ABOUTYOU",
         "kind": "subtitle",
         "title": "Slogan",
         "body": "Hol Dir per E-Mail eine About You-Geschenkkarte."
       }
     }
   ]
}
```

#### 4.5.6.8 Content

See [Content Service] for more information on the source of these fields.

# 4.5.6.8.1 Content request

Variables Description Example



```
GET /api/rest/v1/content/i18next.json HTTP/1.1
Authorization: No Auth
Accept: application/json
```

# 4.5.6.8.2 Content response

```
HTTP/1.1 200 OK
Content-Type: application/json
{
   "en": {
     "world.hello": "Hello, World!",
     "example.text": "Lorem ipsum dolor sit amet...",
     "button.cancel": "Cancel",
     "radio.options": {
      "option-1": "Selection 1",
       "option-2": "Selection 2",
    }
   },
   "de": {
     "world.hello": "Hallo, Welt!",
     "example.text": "Lorem ipsum dolor sit amet...",
     "button.cancel": "Abbrechen"
     "radio.options": {
       "option-1": "Auswahl 1",
       "option-2": "Auswahl 2",
   }
}
```

### 4.5.6.9 Verification

See for more information on the source of these fields.



4.5.6.9.1 Verification request by phone number

```
POST /api/rest/v1//auth/phone-number-verification HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json

{
   "data": {
      "id": "38f4dfef-9baa-4302-831f-e41df4ce4084",
      "type": "phone-number-verification",
      "attributes": {
            "phone-number": "+381691994655",
            "sms-confirmation-code": "716569"
            }
        }
    }
}
```

4.5.6.9.2 Verification by phone number response

```
HTTP/1.1 200 OK
Content-Type: application/json

{
    "data": {
        "type": "phone-number-verification",
        "attributes": {
            "phone-number": "+381691994655",
            "ok": false,
            "remaining-number-of-attempts": 4,
            "remaining-expiration-time": 0
        }
    }
}
```

4.5.6.9.3 Verification request by sms

4.5.6.9.4 Verification by sms number response

```
HTTP/1.1 200 OK
Content-Type: application/vnd.api+json
```



```
{
  "data": {
    "type": "sms-verification-code",
    "attributes": {
        "phone-number": "+381691994655",
        "ok": true,
        "remaining-number-of-attempts": 2,
        "remaining-delay-time": 20,
        "remaining-expiration-time": 1800
    }
}
```

#### 4.5.6.10 Cookies

### 4.5.6.10.1 Cookies request

```
POST /api/rest/v1/cookies HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
   "data": [
       "type": "cookie",
       "id": "shopId",
       "attributes": {
         "name": "shopId",
         "value": "1234"
       }
     },
       "type": "cookie",
       "id": "ns_dev_id",
       "attributes": {
         "name": "ns_dev_id",
         "value": "device_id"
       }
     }
   ]
}
```

### 4.5.6.10.2 Cookies response

```
HTTP/1.1 200 OK
```

### 4.5.6.11 Documentation

Returns list of Json Schemas for request and response for requested rest endpoint. Use exact endpoint plus schema url parameter. For example, /api/rest/v1/vouchers?schema will return json schemas for /api/rest/v1/vouchers endpoint.



### 4.5.6.11.1 Documentation request

```
GET /api/rest/v1/vouchers?schema HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```

## 4.5.6.11.2 Documentation response

Complete Response is omitted because of size, here is just a part:

```
HTTP/1.1 200 OK
   "required": [
     "createdDate",
     "notificationStatus",
     "notificationTarget",
     "notificationType",
     "orderFeeTotal",
     "orderPriceTotal",
     "orderStatus",
     "orderTaxTotal",
     "paymentMethod",
     "paymentProvider",
     "paymentStatus",
     "shortId",
     "voucherCode",
     "voucherCurrency",
     "voucherStatus",
     "voucherValue"
   ]
}
```

#### 4.5.6.12 i18 internationalization

✓ Retrieves i18next json based on requested language

## 4.5.6.12.1 i18 request

```
GET api/rest/v1/content/i18next.json/de HTTP/1.1
Authorization: No Auth
Accept: application/vnd.api+json
```





Figure 1: Last Page