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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

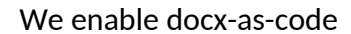




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## 2 puzzlesCloudMDs

pc md 1 2 3



### 3.1 Backticks MD file

Tis is text which contains text under backticks

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

[illegible]

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

- ✓ [x] Test environment and credentials
- ✓ [x] specify voucher content fields
- ✓ [x] specify voucher pricing fields
- ✓ [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    |
|--------------------------------|----------|----------------|
| <a href="#">test@test.org</a>  | test     | just protected |
| <a href="#">test@gmail.com</a> | 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 un-register 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<br>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<br>GltMTM4My0<br>0M2E0LWI1M<br>DYtYmUwZjY<br>wMzJiZDY5 | master.env.a<br>pi.shop1.roc<br>ks | /    | Seassion | true     | false  |

#### 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": {
```



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```
        "name": "PayPal",  
        "provider-name": "Wirecard"  
      }  
    ]  
  }  
}
```

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



| field name                  | type   | constraints | 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-h0mLD2zDgF26ptjxSNRiKFiLM",
      "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-h0mLD2zDgf26ptjxSNRiKFiLM",
      "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
      "payment-status": "pending",
      "payment-method": "creditcard",
      "voucher-code": "LEBALLINN10",
      "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 `[GetProviderTexts]` 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

```
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"
    }
  }
}
```

#### 4.1.6.9.4 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

- ✓ [x] Test environment and credentials



- ✓ [x] specify voucher content fields
- ✓ [x] specify voucher pricing fields
- ✓ [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    |
|--------------------------------|----------|----------------|
| <a href="#">test@test.org</a>  | test     | just protected |
| <a href="#">test@gmail.com</a> | 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 un-register 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} and \${ICP_SHOP_PASSPHRASE} | MzAwMDAwMTY6dG9wLXNIY3JI<br>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<br>GltMTM4My0<br>0M2E0LWI1M<br>DYtYmUwZjY<br>wMzJiZDY5 | master.env.a<br>pi.shop1.roc<br>ks | /    | Seassion | true     | false  |

##### 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": {
```



We enable docx-as-code

```
        "name": "PayPal",  
        "provider-name": "Wirecard"  
      }  
    ]  
  }  
]  
}
```

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



| field name                  | type   | constraints | 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-h0mLD2zDgF26ptjxSNRiKFiLM",
      "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-h0mLD2zDgf26ptjxSNRiKFiLM",
      "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
      "payment-status": "pending",
      "payment-method": "creditcard",
      "voucher-code": "LEBALLINN10",
      "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 `[GetProviderTexts]` 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

```
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"
    }
  }
}
```

#### 4.2.6.9.4 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

- ✓ [x] Test environment and credentials





- ✓ [x] specify voucher content fields
- ✓ [x] specify voucher pricing fields
- ✓ [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    |
|--------------------------------|----------|----------------|
| <a href="#">test@test.org</a>  | test     | just protected |
| <a href="#">test@gmail.com</a> | 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 un-register 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} and \${ICP_SHOP_PASSPHRASE} | MzAwMDAwMTY6dG9wLXNIY3JI<br>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

|  |
|--|
| <pre>HTTP/1.1 201 Created Content-Type: application/vnd.api+json</pre> |
|--|

###### 4.3.6.1.3 Cookies

| Name    | Value  | Domain                             | Path | Expires  | HttpOnly | Secure |
|---------|--|------------------------------------|------|----------|----------|--------|
| SESSION | MmQ5ZjkxO<br>GltMTM4My0<br>0M2E0LWI1M<br>DYtYmUwZjY<br>wMzJiZDY5 | master.env.a<br>pi.shop1.roc<br>ks | /    | Seassion | true     | false  |

##### 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": {
```



We enable docx-as-code

```
        "name": "PayPal",  
        "provider-name": "Wirecard"  
      }  
    ]  
  }  
]  
}
```

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





| field name                  | type   | constraints | 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-h0mLD2zDgF26ptjxSNRiKFiLM",
      "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-h0mLD2zDgf26ptjxSNRiKFiLM",
      "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
      "payment-status": "pending",
      "payment-method": "creditcard",
      "voucher-code": "LEBALLINN10",
      "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 `[GetProviderTexts]` 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

- ✓ [x] Test environment and credentials



- ✓ [x] specify voucher content fields
- ✓ [x] specify voucher pricing fields
- ✓ [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    |
|--------------------------------|----------|----------------|
| <a href="#">test@test.org</a>  | test     | just protected |
| <a href="#">test@gmail.com</a> | 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 un-register 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} and \${ICP_SHOP_PASSPHRASE} | MzAwMDAwMTY6dG9wLXNIY3JI<br>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<br>GltMTM4My0<br>0M2E0LWI1M<br>DYtYmUwZjY<br>wMzJiZDY5 | master.env.a<br>pi.shop1.roc<br>ks | /    | Seassion | true     | false  |

##### 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": {
```



We enable docx-as-code

```
        "name": "PayPal",  
        "provider-name": "Wirecard"  
      }  
    ]  
  }  
}
```

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



| field name                  | type   | constraints | 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-h0mLD2zDgF26ptjxSNRiKFiLM",
      "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-h0mLD2zDgf26ptjxSNRiKFiLM",
      "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
      "payment-status": "pending",
      "payment-method": "creditcard",
      "voucher-code": "LEBALLINN10",
      "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 `[GetProviderTexts]` 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

```
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"
    }
  }
}
```

#### 4.4.6.9.4 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

- ✓ [x] Test environment and credentials



- ✓ [x] specify voucher content fields
- ✓ [x] specify voucher pricing fields
- ✓ [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    |
|--------------------------------|----------|----------------|
| <a href="#">test@test.org</a>  | test     | just protected |
| <a href="#">test@gmail.com</a> | 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 un-register 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} and \${ICP_SHOP_PASSPHRASE} | MzAwMDAwMTY6dG9wLXNIY3JI<br>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

|  |
|--|
| <pre>HTTP/1.1 201 Created Content-Type: application/vnd.api+json</pre> |
|--|

###### 4.5.6.1.3 Cookies

| Name    | Value  | Domain                             | Path | Expires  | HttpOnly | Secure |
|---------|--|------------------------------------|------|----------|----------|--------|
| SESSION | MmQ5ZjkxO<br>GltMTM4My0<br>0M2E0LWI1M<br>DYtYmUwZjY<br>wMzJiZDY5 | master.env.a<br>pi.shop1.roc<br>ks | /    | Seassion | true     | false  |

##### 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": {
```



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```
        "name": "PayPal",  
        "provider-name": "Wirecard"  
      }  
    ]  
  }  
]  
}
```

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



| field name                  | type   | constraints | 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-h0mLD2zDgF26ptjxSNRiKFiLM",
      "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-h0mLD2zDgf26ptjxSNRiKFiLM",
      "payment-session-id": "4b7c0aec-3db3-4cd2-9b22-4d41fb964fdc",
      "payment-status": "pending",
      "payment-method": "creditcard",
      "voucher-code": "LEBALLINN10",
      "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 `[GetProviderTexts]` 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

```
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"
    }
  }
}
```

#### 4.5.6.9.4 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
```



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Figure 1: Last Page