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Author Contact: [[doc-author-email]]

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## 1 Introduction

### 1.1 References

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

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## 2 UC3 Just testing

### 2.1 Edge Service

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

#### 2.1.1 TODO

##### 2.1.1.1 TODO version 1.0

- # [x] Test environment and credentials
- # [x] specify voucher content fields
- # [x] specify voucher pricing fields
- # [x] specify payment method fields

##### 2.1.1.2 TODO version 1.0-next

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

#### 2.1.2 Test environment and credentials

TODO

Username	Password	Description
<a href="mailto:test@test.org">test@test.org</a>	test	just protected
<a href="mailto:test@gmail.com">test@gmail.com</a>	test	just testing
testtest	test	qa

#### 2.1.3 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. Therefore 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.

#### 2.1.4 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.*

#### 2.1.5 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.

#### 2.1.6 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].

### 2.1.6.1 Login

#### 2.1.6.1.1 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}	MzAwMDAwMTY6dG9wLXNIY3JldC1wYXNzcGhyYXNl

```
POST /api/rest/v1/auth/login HTTP/1.1 Authorization: Basic ${ICP_SHOP_DIGEST} Accept: application/vnd.api+json
```

#### 2.1.6.1.2 Login response

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

#### 2.1.6.1.3 Cookies

Name	Value	Domain	Path	Expires	HttpOnly	Secure
SESSION	Mm05ZjkxOGItMjA5LWVlbnRlcmlkcy9mUw8pbnNlZDY5	mattent.com	/api/v1/mocks	SessMon	true	false

### 2.1.6.2 Logout

#### 2.1.6.2.1 Logout request

Variables	Description	Example
-----------	-------------	---------

POST /api/rest/v1/auth/logout HTTP/1.1 Authorization: No Auth Accept: application/vnd.api+json

#### 2.1.6.2.2 Logout response

|HTTP/1.1 204 No Content

### 2.1.6.3 Voucher list

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

#### 2.1.6.3.1 Voucher list request

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

#### 2.1.6.3.2 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":{            "name":"PayPal",            "provider-name":"Wirecard"          }        }      }    } ]
```

#### 2.1.6.4 Voucher detail

#### 2.1.6.4.1 Voucher detail request

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

#### 2.1.6.4.2 Voucher detail response

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

```
{
  "data": {
    "id": "f6340f9f-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"
        }
      }
    }
  }
}
```

#### 2.1.6.5 Voucher order

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

#### 2.1.6.5.1 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	constraints	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)"
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

#### 2.1.6.5.2 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-  
h0mLD2zDgf26ptjxSNRiKFilIM", "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" } } }
```

#### 2.1.6.6 Voucher order detail

##### 2.1.6.6.1 Voucher order detail request

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

##### 2.1.6.6.2 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-  
h0mLD2zDgf26ptjxSNRiKFilIM", "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" } } }
```

##### 2.1.6.7 Provider Text

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

##### 2.1.6.7.1 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
```

#### 2.1.6.7.2 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." } } ] }
```

#### 2.1.6.8 Content

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

##### 2.1.6.8.1 Content request

Variables	Description	Example
-----------	-------------	---------

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

#### 2.1.6.8.2 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", } } }
```

#### 2.1.6.9 Verification

*See for more information on the source of these fields.*

##### 2.1.6.9.1 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" } } }
```

##### 2.1.6.9.2 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 } } }
```

##### 2.1.6.9.3 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" } } }
```

##### 2.1.6.9.4 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 } } }
```

#### 2.1.6.10 Cookies

##### 2.1.6.10.1 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" } } ] }
```

##### 2.1.6.10.2 Cookies response

```
|HTTP/1.1 200 OK
```

#### 2.1.6.11 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.

##### 2.1.6.11.1 Documentation request

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

##### 2.1.6.11.2 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" ] }
```

#### 2.1.6.12 i18next internationalization

*# Retrieves i18next json based on requested language*

##### 2.1.6.12.1 i18 request

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





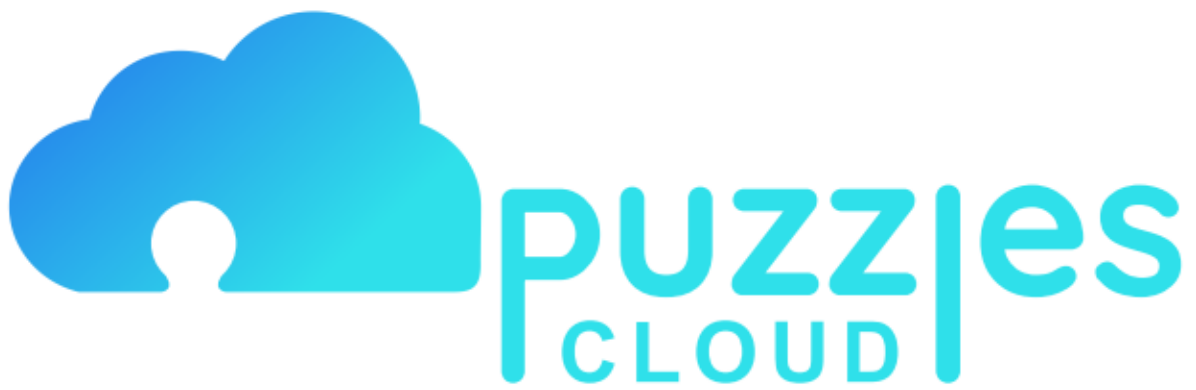


Figure 1: Last Page