# Digitaleo BUSINESS BOOSTER

# Loyalty API

## Revisions

| Revision | Author | Date | Comments |
|---|---|---|---|
| 1 | cenee | 16/03/2016 | Translated document |
| 2 | jbbinard | 15/04/2016 | Purse info documentation |
| 3 | vlaine | 20/04/2016 | Add money information on loyalty member<br>Fix send event paragraph |
| 4 | cenee | 02/05/2016 | Updated the "buy" event type example |
| 5 | vlaine | 13/05/2016 | Added immediate benefit |
| 6 | jbbinard | 19/05/2016 | Added read only valid immediate benefits |
| 7 | vlaine | 24/05/2016 | Added cash receipt fields details |
| 8 | vlaine | 02/06/2016 | Added activationDate property on person |
| 9 | vlaine | 21/06/2016 | Added UTC information on all dates and times |
| 10 | vlaine | 04/08/2016 | Added new property and new URL on ImmediateBenefit |
| 11 | cenee | 05/08/2016 | Added sections "rules" and "goodwill gesture" |
| 12 | vlaine | 31/08/2016 | Added MasterCode on ImmediateBenefit |

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| 13 | vlaine | 07/11/2016 | Added resource loyalty program (read), Updated all information about role required by resource |
|----|--------|------------|---|
| 14 | vlaine | 15/11/2016 | Added resource physical card numbers |
| 15 | vlaine | 18/11/2016 | Added resources Signup fields and Login |
| 16 | vlaine | 21/11/2016 | Added resources Organization and Store |
| 17 | vlaine | 05/01/2017 | Added Debugging API Calls section |
| 18 | vlaine | 10/01/2017 | Fix an error in 3.6.2 Using Purse (Field name misspelled PurseAmount, must be Amount in POST call) |
| 19 | vlaine | 08/02/2017 | Added section Contextualized information on loyalty member |
| 20 | vlaine | 08/06/2017 | Added 3.2.5 Creating a person and 3.16 Loyalty transactions history |

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This document describes the programming interface, or API, of Digitaleo's platform for managing loyalty. This API allows you to create a loyalty program and to configure it with rules for earning points, offers to be converted, and vouchers to be used by customers.

# 1. Overview

This API is RESTfull. It is based on various resources of which the details are provided further on in this document.

The purpose of this first section is to help you understand the various types of calls to our APIs, regardless of the resource.

## 1.1. Authentication

Authentication to our APIs is based on the oAuth 2.0 protocol. Each call to our APIs has to contain an access_token that the client application will have requested beforehand from the Digitaleo authorization server:

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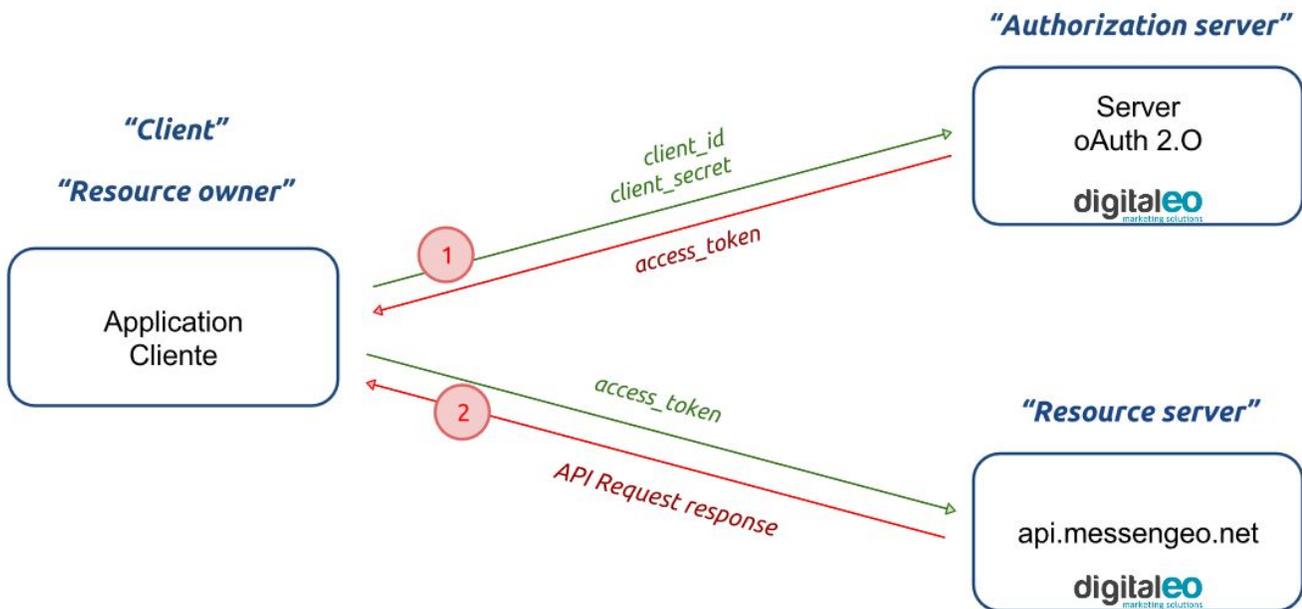
## 1.1.1. Retrieving the application ids

To retrieve a client_id and a client_secret, you must declare an application in the Digitaleo platform.
For this,
- Connect to app.digitaleo.com
- Click on the Parameters menu
- Go to the API tab

## 1.1.2. Retrieve an authentication token

The client must perform a POST request with the following parameters:
- grant_type: The value must be "client_credentials" for this type of authorization
- client_id: The id of the application (client)
- client_secret: The secret key of the application (client)

*Note: The client_id and client_secret will be sent to you.*

The URL for retrieving a token is as follows

```
https://oauth.messengeo.net/token
```

Example of an HTTP request

```
POST /token HTTP/1.1
Host: oauth.messengeo.net
Content-Type: application/x-www-form-urlencoded

client_id=51612c780b4dbaea8f81995beccbcfec08969d0e&
client_secret=p280edbd76d510c41990cbe5e6108c7e&
grant_type=client_credentials
```

Example of a request with Curl

```
curl https://oauth.messengeo.net/token
 -d 'client_id=51612c780b4dbaea8f81995beccbcfec08969d0e'
 -d 'client_secret=p280edbd76d510c41990cbe5e6108c7e'
 -d 'grant_type=client_credentials'
```

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**Return**

if successful, the authorization server will return a code 200 HTTP response of which the body will contain the following JSON flow

```
{
    "access_token":"eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJpZCI6ImYyMzE2...",
    "expires_in":"3600",
    "token_type":"bearer",
    "scope":"basic",
}
```

Description of the various fields:

| Field | Description |
|---|---|
| access_token | The token issued by the authorization server. *Note: The size of the token can range up to 50,000 characters* |
| expires_in | The lifespan in seconds of the token issued |
| token_type | The type of token. The Digitaleo server only supports the "bearer" type |
| scope | The scope of the token |

If one of the parameters is not correct, the authorization server will return a code 400 http response (HTTP/1.1 400 Bad Request) of which the body will contain the following json flow:

```
{
    "error":"invalid_client",
    "error_description":"The client credentials are invalid",
}
```

## 1.1.3. Using the authorization token (access_token)

The authorization token is sent to the API in the header of the HTTP request and more particularly in the header "Authorization: Bearer". Note that the "Authorization: Bearer" is case-sensitive.

Example of an HTTP request

```
GET /rest/campaigns HTTP/1.1

Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJpZCI6ImYyMzE2…
Host: api.digitaleo.com
```

Example of a request with Curl

```
curl -H "Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJpZCI6ImYyMzE2..."
https://api.digitaleo.com/loyalty/v1/person/search/Doe
```

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## 1.2. Pagination

Pagination for the results is standardized for the resources that support it. It has the form of 2 lines in the response header and of a set of parameters available when the API is called.

For example, searching for a person using the following GET call:

```
{URL_CustomerMaster}/person/search/Doe
```

Results returned in paginated form:

Response header:

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Server: Microsoft-IIS/8.0
Link:{URL_CustomerMaster}/person/search/doe?page=2&pageSize=100&sortBy=email&sortDirection=D
escending;rel="next"
```

(For the Person resource, the default sorting is on the email property)

Content of the response:

```
[
    {
        "id": "54fec93029d29f0b2421f204",
        "lastName": "Doe",
        "firstName": "John",
        "email": "john.doe@unknown.com",
        "mobile": "+33 6 00 00 00"
    },
    {
        "id": "54fec93029d29f0b2421f203",
        "lastName": "Doe",
        "firstName": "Jeanne",
        "email": "jeanne.doe@unknown.com",
        "mobile": "+33 6 00 00 01 01"
    }
]
```

If the number of results in the request exceeds the size of a results page (specified using the "pageSize" parameter), the Link:…;rel="next" is inserted with the url and the parameters allowing the next page to be selected.

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List of parameters that affect pagination:

| Parameter | Function |
| --- | --- |
| page | Index of the page to be returned (base 1) |
| pageSize | The number of elements per page to be returned |
| sortBy | The name of the field to be used to sort the results |
| sortDirection | The sort direction (possible values: "Ascending" and "Descending") |

The "prev" and "next" links in the headers are inserted only if they apply. As such, there is never a "prev" link when consulting the first page of the results. Likewise, there is never a "next" link when consulting the last page.

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## 1.3.Updating resources

To update a resource, a complete resource must be provided, i.e. with the modified and unmodified fields.

Example of updating an offer:

```
PUT {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyoffer/{id}
{
  "name":"offer 1",
  "label":"Super offer 1",
  "description": "lorem ipsum .......",
  "mastercode": "AZERTY",
  "startdate": "2015-01-01T01:01:01",
  "enddate" : "2015-03-01T01:01:01",
  "imageuri" : "http://demo.digitaleo.com/images/demo?3456789",
  "thumbnailuri": "http://demo.digitaleo.com/images/demo?3456789&mode=thumbnailuri",
  "expirationtolerance": "7",
  "converter": {
    "minimumpoint": "1000",
    "scheduletypename":  "monthly",
    "priority": "1"
  }
}
```

Updating a resource returns HTTP code 200 if the operation was a success and the modified resource, otherwise HTTP code 304 and the error message are returned.

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## 1.4. Return codes

The HTTP response code is contained:
- in the HTTP header,
- in the content of the response in the case of an error.

The return codes are based on the HTTP return codes:
- 2XX - The call to the API unfolded correctly
- 4XX – The call to the API has an error in its parameters.

Codes with success:
- 200 OK: everything went well
- 201 Created: Resource created
- 204 No Content: Resource updated or deleted

The error codes that you are likely to see are the following:
- 304 Not Modified: Error during updating or deleting (the resource is not modified)
- 400 Bad Request: Missing or incorrect parameter
- 401 Unauthorized: Authentication failed
- 403 Forbidden: Access to the requested location is prohibited
- 404 Not Found: Unknown method or method not indicated
- 405 Method Not Allowed: You are not authorized to use the method that you are requesting
- 414 Request-URI Too Long: Your request is too large, please shorten it
- 417 Expectation Failed: The required parameters are either missing or are incorrect
- 500 Internal Server Error: Unidentified error

For example, if the authentication token is no longer valid for the following request:

```
curl
-X GET
-H "Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbG...ccOqbVow8xOQyQ"
https://api.messengeo.net/rest/resource
```

The header of the HTTP response will be

```
< HTTP/1.1 401 Unauthorized
< Date: Fri, 06 Mar 2015 21:32:06 GMT
< Server: Apache/2.2.16 (Debian)
< X-Powered-By: PHP/5.3.3-7+squeeze15
< Expires: Thu, 19 Nov 1981 08:52:00 GMT
< Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
< Pragma: no-cache
< Content-Length: 46
< Content-Type: application/json
```

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while the body of the HTTP response will be

```
{
    "status": 401,
    "message": "Authorization has been denied for this request."
}
```

## 1.5 Debugging API calls

The API set in the response headers the special header "X-Digitaleo-CorrelationId" which can be used to investigate issue with the API. The value of this header is a GUID which is traced in all Digitaleo's logs. This value is unique per call and can help support to investigate an issue on a particular call.

The header of the HTTP response will be

```
< HTTP/1.1 200 Ok
< Date: Fri, 06 Mar 2015 21:32:06 GMT
< Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
< Pragma: no-cache
< Content-Length: 46
< Content-Type: application/json
< X-Digitaleo-CorrelationId: 0cecbe1d-cfe6-4325-9b10-8a00af497443
```

# 2. Loyalty

A loyalty program defines all of the resources (rules, offers, vouchers, etc.) for one or several brands.

Customers who are members of the loyalty program can earn points or money, according to events linked to the brand.

Loyalty is covered by the "Loyalty" API:
https://api.digitaleo.com/loyalty/v1

This loyalty API uses the customer database managed by the "CustomerMaster" API:
https://api.digitaleo.com/customermaster/v1

Note: these two APIs are versioned (current version: v1), the version number is part of the URL.

## 2.1 Members of the loyalty program

Members who belong to the loyalty program are persons managed by the CustomerMaster API (with last name, first name, mobile telephone number, email address, mailing address, etc.), and who have additional data that is specific to the loyalty program (loyalty card identifier, number of points, vouchers, etc.

## 2.2 Events

Events concern an end user as well as a brand. There are various events: in-store purchase, store check-in,

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activity on social networks, entering personal information, …

The events are deposited on an Azure service bus, in order to be processed by the loyalty system.

## 2.3 Rules for earning points

The rules for earning points allow you to reward a customer in the form of points according to his actions.

Examples of rules:
- for any in-store purchase, €1 spent earns 1 point
- a "like" on Facebook earns 50 points

## 2.4 Offers

A loyalty program also includes a catalog of offers. An offer is a definition of an advantage in exchange for the customer's points. Offers have validity dates in terms of their application.

Examples of offers:
- exchanging 1000 points for a €10 reduction voucher
- exchanging 2000 points for a 25% reduction voucher

Creating vouchers from offers can be:
- automatic, on the same day every month
- automatic, every time the customer earns points
- on request (from the customer or a user managing the loyalty program)

## 2.5 Vouchers

A voucher is an instance of an offer. It is granted to a customer in exchange for points, according to the catalog of offers available. When the voucher is granted, the customer's number of points is decremented.

The voucher is to be used in one go; it "burns" when it is used. Vouchers also have validity dates in terms of their use.

## 2.6 Immediate benefits

An immediate benefit is a discount which can be used directly when purchasing. The discount must be calculated by the caller and the result must be set in the cash register

## 2.7 Purse

The purse can be used by a member to buy somethings. It's incremented by the earn rules created by the loyalty manager.
The purse information could have a maximum defined and the caller must check it before processing payment. When the purse use transaction is created, the API will check it also.

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## 2.8 Goodwill gestures

Special rules can be created to give points to a member, outside events. Those goodwill gestures are "reward" rules. For example, a seller could grant a reward rule to a customer who had a long wait at checkout.

## 2.9 Physical card numbers management

Digitaleo allow you to manage the physical card numbers directly from the application. The physical card numbers resource allow you to test the validity (exists and/or is valid regarding the rules), and manage the physical card numbers

# 3. Reference documentation

## 3.1. Read details about the loyalty program

### 3.1.1. List of properties of the LoyaltyProgram resource

| Property | Description |
|----------|-------------|
| Id | Identifier of the loyalty program |
| Name | The loyalty program name |
| ReadOnly | A value indicating if the loyalty program is read only for the current user |
| UnitType | The type of the loyaty program (Points or Money) |

### 3.1.2. Reading a loyalty program as a user, network, api, application, clienteling role

```
GET {URL_loyalty}/loyaltyprogram/
```

### 3.1.3. Reading a loyalty program as an enduser

```
GET {URL_loyaty}/me/loyaltyprogram/
```

## 3.2. Persons who are members of the loyalty program

### 3.2.1 List of properties of the Person resource

| Property | Description |
|----------|-------------|
|          |             |

| Id | Identifier of the person |
|---|---|
| Email | Email |
| Phone | Telephone number |
| Mobile | Mobile telephone number |
| Fax | Fax number |
| TwitterId | Twitter id |
| FacebookId | Facebook id |
| Civility | Civility |
| FirstName | First name |
| LastName | Last name |
| Address1 | Part 1 of the mailing address |
| Address2 | Part 2 of the mailing address |
| ZipCode | Postal code |
| City | City |
| State | Province |
| Country | Country |
| Longitude | Longitude (double, can be null) |
| Latitude | Latitude (double, can be null) |
| Birthdate | Date of birth (Date, can be null) |
| Loyalty | Data linked to the loyalty program (cf. hereinbelow) |
| Store | Data linked to the reference/preferred point of sale of the customer |

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Description of the "Loyalty" property:

| Property | Description |
| --- | --- |
| points | Number of points of the person |
| money | Amount of money earned by the person |
| loyaltyMemberId | Identifier of the member within the loyalty program |
| loyaltyProgramId | Identifier of the loyalty program that the member belongs to |
| virtualCardNumber | Identifier of the virtual loyalty card |
| physicalCardNumber | Identifier of the physical data card (can be null) |
| activationDate | Date when the member activated his account (can be empty or non existent) |

Description of the "Store" property:

| Property | Description |
| --- | --- |
| storeReferenceCode | Identifier of the store |

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## 3.2.2 Searching for a person

This resource is allowed to roles: clienteling, api, admin, network, user

```
GET {URL_customerMaster}/person/search/{searchTerm}
```

| URL parameter | Description |
|---|---|
| searchTerm | Terms to be searched for among:<br>● Last name<br>● First name<br>● Email address<br>● Mobile telephone number<br>● Identifier of the virtual loyalty card<br>● Identifier of the physical loyalty card |

This action returns a list of "person summary" resources including the fields Last name, first name, email, mobile, avatar and Id of the person.

List of properties of the "person summary" resource

| Property | Description |
|---|---|
| Id | Id of the person in Customer Master |
| FirstName | First name of the person |
| LastName | Last name of the person |
| Email | Email of the person |
| Mobile | Telephone number of the person |
| Avatar | URL of the avatar of the person |

By default, the first 100 results are returned and are sorted by last name (LastName). If more results are available, the header of the response contains a "Link" value that can contain a maximum of 2 values.

Example, with a search for the term "j"

```
{URL_CustomerMaster}/person/search/j?page=2&pageSize=20&sortBy=email&sortDirectionDescending
```

Response header:

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Server: Microsoft-IIS/8.0
Link:{URL_CustomerMaster}/person/search/j?page=1&pageSize=20&sortBy=email&sortDirection=Desc
ending;rel="prev"
Link:{URL_CustomerMaster}/person/search/j?page=3&pageSize=20&sortBy=email&sortDirection=Desc
ending;rel="next"
```

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## 3.2.3 Searching for a person with one or more known criteria
This resource is allowed to roles: clienteling, api, admin, network, user

```
GET {URL_customerMaster}/person/searchByCriteria?firstName=john&lastName=doe&email=
john.doe@test.local&mobile=06010101010
```

The URL parameters are optional, however at least one parameter must be present. If several parameters are present, the research takes them into account (research of the "AND" type)

| URL parameter | Description |
|---|---|
| firstName | First name |
| lastName | Last name |
| email | email |
| mobile | Portable telephone number |

The search returns a list of "person summary" resources including the fields Last name, first name, email, mobile, avatar and Id of the person.

List of properties of the "person summary" resource

| Property | Description |
|---|---|
| Id | Id of the person in Customer Master |
| FirstName | First name of the person |
| LastName | Last name of the person |
| Email | Email of the person |
| Mobile | Telephone number of the person |
| Avatar | URL of the avatar of the person |

By default, the first 100 results are returned and are sorted by last name (LastName). If more results are available, the header of the response contains a "Link" value that can contain a maximum of 2 values.

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## 3.2.4 Reading a person

This resource is allowed to roles: clienteling, api, admin, network, user

```
GET {URL_customerMaster}/person/{id}
```

This method returns the complete person corresponding to the identifier passed as a parameter.

| URL parameter | Description |
|---|---|
| id | Id of the person to be read |

To read a person as an enduser you must call this resource:

```
GET {URL_customerMaster}/me/person/
```

## 3.2.5 Creating a person

This resource is allowed to roles: clienteling, api

```
POST {URL_customerMaster}/person/source/{source}/brand/{brand}
```

This method create a person with the specified info described in the body

| URL parameter | Description |
|---|---|
| source | The source which create the person. Exemple: Store, WebSite, Clienteling, etc, etc, etc |
| brand | The brand |

```
{
    "FirstName": "",
    "LastName": "",
    ...
}
```

The allowed fields are:

| Email | Email |
|---|---|
| Phone | Telephone number |
| Mobile | Mobile telephone number |
| Fax | Fax number |
| Civility | Civility |

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| FirstName | First name |
|-----------|------------|
| LastName | Last name |
| Address1 | Part 1 of the mailing address |
| Address2 | Part 2 of the mailing address |
| ZipCode | Postal code |
| City | City |
| State | Province |
| Country | Country |
| Longitude | Longitude (double, can be null) |
| Latitude | Latitude (double, can be null) |
| Birthdate | Date of birth (Date, can be null) |

## 3.2.6 Updating a person

This resource is allowed to roles: clienteling, api, admin, network, user

```
PUT {URL_customerMaster}/person/{id}/source/{source}/brand/{brand}
```

| URL parameter | Description |
|---------------|-------------|
| id | Id of the person to be updated |
| source | Source at the origin of the modification (in the case of a cash register system, use the "store" source) |
| brand | Brand at the origin of the modification (all of the brands are defined when the parameters for the loyalty program are set) |

To update a person as an enduser you must call this resource:

```
PUT {URL_customerMaster}/me/person/source/{source}/brand/{brand}
```

The properties that can be updated are:

| Property | Description |
|----------|-------------|
| Email | Email |
| Phone | Telephone number |
| Mobile | Mobile telephone number |
| Fax | Fax number |

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| Cvility | Civility |
|---------|----------|
| FirstName | First name |
| LastName | Last name |
| Address1 | Part 1 of the mailing address |
| Address2 | Part 2 of the mailing address |
| ZipCode | Postal code |
| City | City |
| State | Province |
| Country | Country |
| Birthdate | Date of birth (Date) |

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## 3.2.7 Attaching a physical card to a person/Replacing the physical card

This resource is allowed to roles: clienteling, api, admin, network, user, store

```
POST {URL_LOYALTY}/loyaltymember/{personId}/physicalcard/{cardNumber}
```

To attach a physical card number as an enduser, you must call this resource:

```
POST {URL_LOYALTY}/me/physicalcard/{cardNumber}
```

This requires the identifier of the person as well as the identifier of the physical card to be attached.

| Property | Description |
|----------|-------------|
| personId | Identifier of the person |
| cardNumber | Number of the physical loyalty card |

If the loyalty account already contains a physical card, an error is returned.

To update the number of a physical loyalty card for a customer who already has a physical card attached, the following method must be used:

This resource is allowed to roles: clienteling, api, admin, network, user, store

```
PUT {URL_Loyalty}/loyaltymember/{personId}/physicalcard/{cardNumber}
```

| Property | Description |
|----------|-------------|
| personId | Identifier of the person |
| cardNumber | Number of the physical loyalty card |

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## 3.3. Events

### 3.3.1 Structure of events

Events are described in the form of a JSON flow and have a fixed common structure as well as a variable portion according to the type of event.

The structure of an event is as follows:

```
{
        "version": "1.0",
        "eventType": "XXX",
        "eventSource": "XXX",
        "brand": "XXX",
        "eventDate": "",
        "personIdentifier": "",
        "eventData": {
         }
}
```

| Property | Description |
|---|---|
| version | The version of the structure of the event. Must be "1.0" |
| eventType | Type of event. The possible values are: "updateProfile", "storeCheckin", "facebookLikePage", "facebookLikePost", "selfie", "buy", "reward", "sponsor" |
| eventSource | The source of the event, i.e. the type of system that generated this event. The possible values are: "mobile", "facebook", "clienteling", "store", "webSite" |
| brand | The brand concerned by the event |
| eventDate | The date and time of the event. The expected format is the en-US format: YYYY/MM/dd hh:mm:ss. All dates and times must be send in UTC |
| personIdentifier | The identifier of the person concerned by the event. This identifier depends on the source of the event. cf.: Person Identifier table according to the source |
| eventData | JSON structure depending on the type of event. The presence of the property is required but the content or the absence of content depends on the type of event. |

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Person Identifier according to the source

| Source type | Identifier type | Description |
|---|---|---|
| mobile | Id of the person in the CustomerMaster system | In the framework of a mobile application where the end user is authenticated and the user's profile is read from the CustomerMaster system, the id to be used in the events is the id of the profile |
| clienteling | Id of the person in the CustomerMaster system | In the framework of a clienteling application where the profile of the end user is read from the CustomerMaster system, the id to be used in the events is the id of the profile |
| webSite | Id of the person in the CustomerMaster system | In the framework of the loyalty website where the profile of the end user is read from the CustomerMaster system, the id to be used in the events is the id of the profile |
| store | Number of the loyalty card (virtual or physical) or id of the person in the CustomerMaster system | In the framework of a cash register system, the identifier to be used is either the loyalty card number (virtual or physical), or the id of the person in the CustomerMaster system |

## 3.3.2 Format of the "updateProfile" event

```
{
        "version": "1.0",
        "eventType": "updateProfile",
        "eventSource": "clienteling", // The event source (store, webSite, etc, etc, etc)
        "brand": "DressingShop", // The brand associated to the source
        "eventDate": "2015-06-08 11:30:00", // The event date (in en-US format, UTC)
        "personIdentifier": "XXX",
        "eventData": { // The updateProfile data
            "email": "",
            "phone": "",
            "mobile": "",
            "fax": "",
            "civility": "",
            "firstName": "",
            "lastName": "",
            "address1": "",
            "address2": "",
            "zipCode": "",
            "city": "",
            "state": "",
            "country": "",
            "birthdate": "",
            "avatar":  ""
        }
}
```

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### 3.3.3 Format of the "storeCheckin" event

```
{
        "version": "1.0",
        "eventType": "storeCheckin",
        "eventSource": "mobile",       // The event source (store, web site, etc, etc, etc)
        "brand": "DressingShop",       // The brand associated to the source
        "eventDate": "",               // The event date (in en-US format, UTC)
        "personIdentifier": "XXX",
        "eventData": {
            "userLatitude": 48.098645,
            "userLongitude": -1.699255
        }
}
```

The "userLatitude" and "userLongitude" properties are used to validate the position of the user with respect to the position of the store.

### 3.3.4 Format of the selfie event

```
{
    "version": "1.0",
    "eventType": "selfie",
    "eventSource": "mobile",    // The event source (store, web site, etc, etc, etc)
    "brand": "Dressing-Shop",   // The brand associated to the source
    "eventDate": "",            // The event date (in en-US format, UTC)
    "personIdentifier": "XXX",
    "eventData": { }
}
```

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## 3.3.5 Format of cash register receipts

```json
{
    "version": "1.1",
    "eventType": "buy",
    "eventSource": "", // The event source (store, web site, etc, etc, etc)
    "brand": "dressingshop", // The brand associated to the source
    "eventDate": "", // The event date (in en-US format, UTC)
    "personIdentifier": "", // The person identifier.
    "eventData": { // The data of the buy event
        "ticketId": "123456789",
        "physicalCardNumber" : "123456789",
        "grossAmount": "213.23", // TTC
        "immediateBenefits": [
            {
                "id": "123456789",
                "amount": "10"
            }
        ], // List of the immediate benefits chosen by the end user
        "purseTransactions": [
          "65975068"
        ],
        "store": "", // The reference of the store where the purchase has been done
        "items": [
            {
                "brand": "", // The brand
                "productLabel": "", // The product label
                "productReference": "", // The product reference
                "productFamily": "", // The product family
                "tags": [],
                "unitAmount": "123.23",
                "quantity": "1",
                "initialAmount": "123.23", // The initial amount (en-US format, TTC)
                "amount": "123.23" // The final amount of the product (en-US format, TTC)
            },
            {
                "brand": "", // The brand
                "productLabel": "", // The product label
                "productReference": "", // The product reference
                "productFamily": "", // The product family
                "tags": [],
                "unitAmount": "50.00",
                "quantity": "2",
                "initialAmount": "125.00", // The final amount (en-US format, TTC)
                "amount": "100.00" // The final amount of the product (en-US format, TTC)
            }
        ]
    }
}
```

Note: all amounts must be provided by considering the euro as the currency.

| Field name | Description | Value |
|---|---|---|

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| version | The format version. | Must be "1.1" |
|---|---|---|
| eventType | The event type | Must be "buy" |
| eventSource | The event source. | Must be "store" |
| brand | The brand name associated with the auth token used to send the event | string |
| eventDate | The event date in en-US format. All dates and times must be send in UTC | Date (2016-05-24 12:34:23) |
| personIdentifier | The person identifier, could be the person id (loaded from API) or the physical card number | string |
| ticketId | The ticket id if existing | string |
| physicalCardNumber | The physical card number of the person | string |
| grossAmount | The gross amount included the discount if any | Number in en-US format (2.6) |
| immediateBenefits | Json array with the immediate benefit(s) used with its id and the amount calculated from the immediate benefit data | { "id": "123456789", "amount": "24.7" } |
| purseTransactions | Json array with the purse transaction ids. See §3.5 for more information about purse transaction | id |
| store | The store name or id | string |
| items | Json array with the list of items | Array |
| items.brand | Optional<br>The brand associated to the item | string |
| items.productLabel | Optional<br>The product label as visible by the customer | string |
| items.productReference | Optional<br>The product reference | string |
| items.productFamily | Optional<br>The product family | string |
| tags | Json array with tags | String array |
| unitAmount | The unit amount of the item | Number in en-US format (23.98) |
| quantity | The quantity of the item | Integer |
| initialAmount | The initial amount of the item (Before any discount of immediate benefit) | Number in en-US format (24.12) |
| amount | The final amount paid by the customer. It will be used to calculate the earns | Number in en-US format |

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| | | (76.98) |
|---|---|---|

## 3.3.6 Sending an event to Digitaleo

Sending an event to Digitaleo is done through the "event" resource of the CustomerMaster API. The call should be made with a valid token issued by the Digitaleo's oAuth server.

This resource is allowed to roles: clienteling, api, admin, network, user, store, enduser

```
POST {URL_CustomerMaster}/event/
```

The POST request content should be the event to be processed by the system.
The API respond with a HTTP status code 204 No Content

Example: Sending an event through the event resource in C#

```
string customerMasterUrl = "https://api.digitaleo.com/customermaster/v1/event";
string oAuthToken = GetOAuthToken();
string jsonContent = "{ ... }";

using (System.Net.WebClient webclient = new System.Net.WebClient())
{
        webclient.Headers.Add(System.Net.HttpRequestHeader.Authorization, "Bearer " + oAuthToken);
        webclient.UploadString(customerMasterUrl, jsonContent);
}
```

## 3.4. Offers

## 3.4.1 List of properties of the LoyaltyOffer resource

| Property | Description |
|---|---|
| $type | Type of offer (LoyaltyPercentOffer or LoyaltyClassicOffer) |
| Id | Identifier of the offer |
| Name | Name of the offer |
| Label | Commercial name of the offer |
| Terms | Terms of the offer |
| Description | Description of the offer |
| MasterCode | Master code |
| ImageUri | Uri of the associated visual (visual hosted in Digitaleo's content library) |

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| ThumbnailUri | Uri of the thumbnail of the associated visual (visual hosted in Digitaleo's content library) |
|---|---|
| StartDate | Start date of the validity of the offer, in UTC |
| EndDate | End date of the validity of the offer in UTC |
| VoucherStartDate | Start date of the validity of the vouchers coming from the offer (can be null, in this case the date of issue of the voucher is used) in UTC |
| VoucherEndDate | End date of the validity of the voucher coming from the offer in UTC |
| VoucherValidityDays | Number of days of validity of the vouchers coming from the offer starting from the *VoucherStartDate* date |
| Converter | Defines the options that allow points to be converted into a voucher:<br>● MinimumPoint: Number of points required to obtain the offer<br>● ScheduleTypeName: name of the scheduler to use (Daily, Monthly, Instant, OnDemand or Manual)<br>● Priority: in the case of an auto offer (isAuto), priority for the offer with respect to the others |

Automatic conversion of an offer into a voucher for a loyalty member is evaluated either once a month (ScheduleTypeName = "monthly") or once a day (ScheduleTypeName = Daily). When automatic conversion is activated, an automatic process evaluates the number of points of each loyalty member with respect to the number of points required to benefit from the offer and grants a corresponding voucher to the member if the offer is valid for this member.

In the case of an OnDemand offer, the offer is converted into a voucher following action from a human (Seller or customer, for example).
In the case of an Instant offer, the offer is converted into a voucher as soon as the customer has reached the required number of points.
If the offer is of the "LoyaltyPercentOffer" type the following additional field is returned:

| Property | Description |
|---|---|
| percent | Percentage of the number of points to be credited in Euros or as an immediate discount, in exchange for all of the points. |

Example of a proportional offer:
Offer defined at 2% of the points. If a customer with 1000 points wants to use it, he will obtain a €20 discount voucher in exchange for his 1000 points.

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## 3.4.2 List of offers

This method returns the list of offers of the loyalty program, regardless of their status.

This resource is allowed to roles: clienteling, api, admin, network, user, store

```
GET {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyoffer
```

To get the offers as an enduser you must call this resource:

```
GET {URL_Loyalty}/me/loyaltyoffer
```

| Paramètre URL | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the offers to be read |

This method accepts the optional URL parameters:

| URL parameter | Description | Valeur |
|---|---|---|
| isValid | makes it possible to retrieve only the offers that are currently valid (validity verified according to the dates) | *true* or *false* |
| availableWithPoints | makes it possible to retrieve the offers that require a maximum number of points specified | maximum number of points required |
| status | Status of the offer: Pending (in progress), Expired, NotBegun (Upcoming) | One of the values from among Pending, Expired, NotBegun |
| scheduleType | Type of scheduling for the offer: OnDemand, Instant, Daily or Monthly | |
| contextualMember TotalPoints | Number of points to be used in order to generate the texts of proportional offers | Number of points to be used in order to generate the texts of proportional offers |

Example: Reading currently-valid offers that require a maximum of 2000 points. All of the valid offers that require 2000 points **or less** will be returned:

```
GET
{URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyoffer?isValid=true&availableWithPoint
s=2000
```

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## 3.4.3 Reading an offer

This method returns the corresponding offer if it exists, with all of its properties.

This resource is allowed to roles: clienteling, api, admin, network, user, store

```
GET {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyoffer/{id}
```

| URL parameter | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the offer to be read |
| id | Identifier of the offer to be read |

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## 3.4.4 Creating an offer

This resource is allowed to roles: api, admin, network, user

```
POST {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyoffer
```

| Paramètre URL | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program for which the offer is to be created |

| POST parameters | Type | Description |
|---|---|---|
| $type | string | Type of offer (LoyaltyPercentOffer or LoyaltyClassicOffer). Must be the first field of the JSON flow |
| Name | string (max 150 characters) | Name of the offer |
| Label | string (max 250 characters) | Commercial name of the offer |
| Terms | string | Terms of the offers |
| Description | string | Description of the offer |
| MasterCode | string | External code, for example the code of the offer in TCPOS |
| ImageUri | string | Uri of the associated visual (visual hosted in Digitaleo's content library) |
| ThumbnailUri | string | Uri of the thumbnail of the associated visual (visual hosted in Digitaleo's content library) |
| StartDate | DateTime | Start date of the validity of the offer in UTC |
| EndDate | DateTime | End date of the validity of the offer in UTC |
| VoucherStartDate | DateTime | Start date of the validity of the vouchers coming from the offer (can be null, in this case the start date is the date of issue of the voucher) in UTC |
| VoucherEndDate | DateTime | End date of the validity of the vouchers coming from the offer in UTC |
| VoucherValidityDays | int | Number of days of validity of the vouchers coming from the offer starting from the *VoucherStartDate* date |
| Converter | array | Defines the options that allow points to be converted into an offer:<br>● MinimumPoint: Minimum number of points to obtain the offer<br>● ScheduleTypeName: Name of the scheduler to use (Daily, Monthly, OnDemand, Instant or Manuel)<br>● Priority: Priority of the offer with respect to the others |

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## 3.4.5 Modifying an offer

This resource is allowed to roles: api, admin, network, user

```
PUT {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyoffer/{id}
```

| URL parameter | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the offer to be modified |
| id | Identifier of the offer to be modified |

For the PUT parameters, refer to the parameters for creating an offer.

## 3.4.6 Deleting an offer

This resource is allowed to roles: api, admin, network, user

```
DELETE {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyoffer/{id}
```

| Paramètre URL | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the offer to be deleted |
| id | Identifier of the offer to be deleted |

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## 3.5 Vouchers

### 3.5.1 List of properties of the LoyaltyVoucher resource

A voucher is created using an offer, and includes a portion of the properties.

| Property | | Description |
| --- | --- | --- |
| Id | string | Identifier of the voucher |
| LoyaltyOfferId | string | Id of the offer that the voucher comes from |
| Name | string | Name of the offer that the voucher comes from |
| Label | string | Commercial name of the offer that the voucher comes from |
| Terms | string | Terms of the offer that the voucher comes from |
| Description | string | Description of the offer that the voucher comes from |
| MasterCode | string | External code of the offer that the voucher comes from |
| ImageUri | string | Uri of the associated visual (visual hosted in Digitaleo's content library) |
| StartDate | Datetime | Start date of the validity of the voucher in UTC |
| EndDate | Datetime | End date of the validity of the voucher in UTC |
| BurnDate | Datetime | Date of use of the voucher (DateTime, null if voucher is not used) in UTC |
| Code | string | EAN13 code of the voucher used to generate a barcode. |

### 3.5.2 Reading a voucher

This method returns the corresponding voucher if it exists, with all of its properties.

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltyvoucher/{id}
```

| URL parameter | Description |
| --- | --- |
| id | Identifier of the voucher to be used |

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### 3.5.3 List of vouchers of a member of the loyalty program

This method returns all of the vouchers of a member, regardless of their status (whether or not already used, whether or not the date is valid, etc.).

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltyMember/{personId}/loyaltyvoucher
```

To list the vouchers as an enduser you must call this resource:

```
GET {URL_Loyalty}/me/loyaltyvoucher
```

| URL parameter | Description |
|---|---|
| personId | Identifier of the person |

This method accepts optional URL parameters:

| URL parameter | Description | Value |
|---|---|---|
| status | Makes it possible to retrieve only vouchers according to their status.<br>The default value is "Usable" | ● Usable<br>● AlreadyUsed<br>● Expired<br>● NotYetUsable |

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## 3.5.4 Creating a voucher for a member of the loyalty program

A voucher is created for a loyalty member, using an offer.

A voucher can be used if it has not already been used, and if the date of use is between the voucher's "StartDate" and "EndDate" values.

This resource is allowed to roles: api, admin, network, user, clienteling

```
POST {URL_Loyalty}/loyaltyMember/{personId}/loyaltyvoucher/{loyaltyOfferId}
```

To create a voucher from an offer as an enduser, you must call this resource:

```
PUT {URL_Loyalty}/me/loyaltyvoucher/{loyaltyOfferId}
```

| URL parameter | Description |
|---|---|
| personId | Identifier of the person |
| loyaltyOfferId | Identifier of the offer to be used to create a voucher |

The POST call does not contain any data. The return contains the voucher created.

| Result | HTTP code | JSON content |
|---|---|---|
| The user does not have enough points | 412(PreconditionFailed) | { "resultCode": 1, "resultText": "NotEnoughPoints" } |
| The offer is not usable yet | 412 (PreconditionFailed) | { "resultCode": 2, "resultText": "TooEarly" } |
| The offer is no longer usable | 412 (PreconditionFailed) | { "resultCode": 3, "resultText": "TooLate" } |
| The offer is unknown | 412 (PreconditionFailed) | { "resultCode": 5, "resultText": "UnknownOffer" } |
| The type of offer is not valid | 412 (PreconditionFailed) | { "resultCode": 6, "resultText": "InvalidType" } |
| Generic error | 412 (PreconditionFailed) | { "resultCode": 99, "resultText": "UnknowError" } |

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## 3.5.5 Using a voucher

Vouchers can only be used in one go. Once used, the "burnDate" field is populated with the date of use, and the history is filled in.

An offer can be converted into a voucher if the date of conversion is between the offer's "StartDate" and "EndDate" values. A tolerance period can be applied (value in days for "ExpirationTolerance").

This resource is allowed to roles: api, admin, network, user, clienteling

```
PUT {URL_Loyalty}/loyaltyvoucher/{voucherCode}
```

To user a voucher as an enduser you must call this resource:

```
PUT {URL_Loyalty}/me/loyaltyvoucher/{voucherCode}
```

| URL parameter | Description |
|---|---|
| voucherCode | Voucher code to be used to retrieve the voucher (See field "Code" of resource Voucher) |

The PUT call does not contain any data.

The PUT call returns the following data:

| Result | HTTP code | JSON content |
|---|---|---|
| Voucher used successfully | 200 (Ok) | { "resultCode": 0, "resultText": "Ok" } |
| The voucher is not valid yet | 304 (NotModified) | { "resultCode": 2, "resultText": "TooEarly" } |
| The voucher is no longer valid | 304 (NotModified) | { "resultCode": 3, "resultText": "TooLate" } |
| The voucher has already been used | 304 (NotModified) | { "resultCode": 4, "resultText": "AlreadyUsed" } |
| The voucher is not known | 304 (NotModified) | { "resultCode": 5, "resultText": "UnknownVoucher" } |
| Generic error | 304 (NotModified) | { "resultCode": 99, "resultText": "UnknowError" } |

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## 3.6 Purse

### 3.6.1 Get purse informations of a member

This method returns purse information for a member.

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltypurse/loyaltymember/{personId}
```

| URL parameter | Description |
|---|---|
| personId | Identifier of the person |

List of properties of the "purse information" resource

| Property | Description |
|---|---|
| availableAmount | Total amount of member's purse |
| maxAmount | Maximum of usable amount of member's purse |

### 3.6.2 Using purse

A part or the totality of the purse amount can be used for one purchase.  In order to use the purse of a member, a call to the API should be made. This call will check the purse amount asked and create a transaction in the system. The transaction id is returned by the system and must be set in the associated event of type "buy".

This resource is allowed to roles: api, admin, network, user, clienteling

```
POST {URL_Loyalty}/loyaltypurse/loyaltymember/{personId}
```

| URL parameter | Description |
|---|---|
| personId | Identifier of the person |

The POST request should be made with those parameters

| POST parameters | Type | Description |
|---|---|---|
| amount | double | The amount of the purse to be used. It must be less than or equal to the availableAmount AND to the maxAmount |

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The POST request returns the following transaction:

| POST return | Type | Description |
|---|---|---|
| id | string | The transaction id. It must be set in the "buy" event |
| isPending | bool | A value indicating if the transaction has been validated by the system |
| amount | double | The used amount of purse |
| dateCreated | DateTime | The transaction creation date in UTC |
| dateUpdated | DateTime | The transaction update date in UTC |

# 3.7 Immediate benefits

## 3.7.1 List all immediate benefits

This method returns the list of immediate benefits of the loyalty program

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/immediatebenefit
```

| Paramètre URL | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the immediate benefit to be read |

This method accepts the optional URL parameters:

| URL parameter | Description | Value |
|---|---|---|
| page | The page number to be returned | |
| pageSize | The page size | Default value is 100 |
| sort | The field to be used to sort the immediate benefits | Allowed values are "endDate" and "startDate" |
| sortDirection | The sort direction to be applied | Allowed values are "ascending" and "descending" |
| isValidOnly | True to filter only usable immediate benefits | Default value is false |

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Example 1 : Reading immediate benefits with a page size of 50 items sorted by enddate:

```
GET
{URL_tropicloyalty}/loyaltyProgram/{loyaltyProgramId}/immediatebenefit?page=1&pageSize=50&sort=enddate&sor
tDirection=descending
```

Example 2 : Reading only valid immediate benefits :

```
GET {URL_tropicloyalty}/loyaltyProgram/{loyaltyProgramId}/immediatebenefit?isValidOnly=true
```

## 3.7.2 List all immediate benefits from the member context

This method returns the list of immediate benefits available for the loyalty member including additional information like available amount.

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltymember/{personExtId}/immediatebenefit
```

To list all immediate benefits as an enduser, you must use this resource:

```
GET {URL_Loyalty}/me/immediatebenefit
```

| Paramètre URL | Description |
|---|---|
| personExtId | Identifier of the loyalty member or of the person |

This method accepts the optional URL parameters:

| URL parameter | Description | Value |
|---|---|---|
| page | The page number to be returned | |
| pageSize | The page size | Default value is 100 |
| sort | The field to be used to sort the immediate benefits | Allowed values are "endDate" and "startDate" |
| sortDirection | The sort direction to be applied | Allowed values are "ascending" and "descending" |

The API return the following data:

| Properties | Type | Description |
|---|---|---|

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| Id | string | Immediate benefit id |
|---|---|---|
| Name | string | Name of the immediate benefit |
| Label | string | Commercial name of the immediate benefit |
| MasterCode | string | External code, for example the code of the offer in TCPOS |
| Description | string | Description of the immediate benefit |
| ImageUri | string | Uri of the associated visual (visual hosted in Digitaleo's content library) |
| ThumbnailUri | string | Uri of the thumbnail of the associated visual (visual hosted in Digitaleo's content library) |
| StartDate | DateTime | Start date of the validity of the immediate benefit in UTC |
| EndDate | DateTime | End date of the validity of the immediate benefit in UTC |
| PercentAmount | number | Percent of the discount |
| MaxAmount | number | Maximum amount of the discount |
| CanBeCombinedWithOtherRules | boolean | A value indicating if the rules could be evaluated when this immediate benefit is used. |
| IsPublic | boolean | A value indicating if the immediate benefit should be displayed in the clienteling and end user application |
| ImageUri | string | Uri of the associated visual (visual hosted in Digitaleo's content library) |
| ThumbnailUri | string | Uri of the thumbnail of the associated visual (visual hosted in Digitaleo's content library) |
| AvailableImmediateBenefitAmount | number | Available immediate benefit amount remaining for the member |

Example 1 : Reading immediate benefits with a page size of 50 items sorted by enddate:

```
GET
{URL_tropicloyalty}/loyaltymember/{personExtId}/immediatebenefit?page=1&pageSize=50&sort=enddate&sortDirection=descending
```

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### 3.7.3 Reading an immediate benefit

This method returns the corresponding immediate benefit if it exists, with all of its properties.

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/immediatebenefit/{id}
```

| URL parameter | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the immediate benefit to be read |
| id | Identifier of the immediate benefit to be read |

The returned properties are

| Properties | Type | Description |
|---|---|---|
| Id | string | Immediate benefit id |
| Name | string | Name of the immediate benefit |
| Label | string | Commercial name of the immediate benefit |
| MasterCode | string | External code, for example the code of the offer in TCPOS |
| Description | string | Description of the immediate benefit |
| ImageUri | string | Uri of the associated visual (visual hosted in Digitaleo's content library) |
| ThumbnailUri | string | Uri of the thumbnail of the associated visual (visual hosted in Digitaleo's content library) |
| StartDate | DateTime | Start date of the validity of the immediate benefit in UTC |
| EndDate | DateTime | End date of the validity of the immediate benefit in UTC |
| PercentAmount | number | Percent of the discount |
| MaxAmount | number | Maximum amount of the discount |
| MaxDailyAmount | number | Maximum amount of the discount usable by a member per day |
| CanBeCombinedWithOtherRules | boolean | A value indicating if the rules could be evaluated when this immediate benefit is used. |

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| IsPublic | boolean | A value indicating if the immediate benefit should be displayed in the clienteling and end user application |
|---|---|---|
| ImageUri | string | Uri of the associated visual (visual hosted in Digitaleo's content library) |
| ThumbnailUri | string | Uri of the thumbnail of the associated visual (visual hosted in Digitaleo's content library) |

## 3.7.4 Creating an immediate benefit

This resource is allowed to roles: api, admin, network, user

```
POST {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/immediatebenefit
```

| Paramètre URL | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program for which the immediate benefit is to be created |

| POST parameters | Type | Description |
|---|---|---|
| $type | string | Must be LoyaltyImmediateBenefit |
| Name | string | Name of the immediate benefit |
| Label | string | Commercial name of the immediate benefit |
| MasterCode | string | External code, for example the code of the offer in TCPOS |
| Description | string | Description of the immediate benefit |
| ImageUri | string | Uri of the associated visual (visual hosted in Digitaleo's content library) |
| ThumbnailUri | string | Uri of the thumbnail of the associated visual (visual hosted in Digitaleo's content library) |
| StartDate | DateTime | Start date of the validity of the immediate benefit in UTC |
| EndDate | DateTime | End date of the validity of the immediate benefit in UTC |
| PercentAmount | number | Percent of the discount |
| MaxAmount | number | Maximum amount of the discount |
| MaxDailyAmount | number | Maximum amount of the discount usable by a member per day |

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| CanBeCombinedW ithOtherRules | boolean | A value indicating if the rules could be evaluated when this immediate benefit has been used. |
|---|---|---|
| IsPublic | boolean | A value indicating if the immediate benefit should be displayed in the clienteling and end user application |

## 3.7.5 Modifying an immediate benefit

This resource is allowed to roles: api, admin, network, user

```
PUT {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/immediatebenefit/{id}
```

| URL parameter | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the immediate benefit to be modified |
| id | Identifier of the immediate benefit to be modified |

For the PUT parameters, refer to the parameters for creating an immediate benefit.

## 3.7.6 Deleting an immediate benefit

```
DELETE {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/immediatebenefit/{id}
```

| Paramètre URL | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the immediate benefit to be deleted |
| id | Identifier of the immediate benefit to be deleted |

# 3.8 Rules

## 3.8.1 List all rules

This method returns the list of rules of the loyalty program

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyrule
```

| Paramètre URL | Description |
|---|---|
|  |  |

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| loyaltyProgramId | Identifier of the loyalty program carrying the rules to be read |
|---|---|

This method accepts the optional URL parameters:

| URL parameter | Description | Value |
|---|---|---|
| page | The page number to be returned | Default value is 1 |
| pageSize | The page size | Default value is 100 |
| rewardRulesOnly | True to filter only rules with the "reward" event type (deprecated, use "reward" resource instead) | Default value is false |
| excludeRewardRules | True to filter only rules without the "reward" event type | Default value is false |

The API returns a list of rules.

Example 1 : Reading rules without the reward ones, with a page size of 5 items:

```
GET
{URL_tropicloyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyrule?page=1&pageSize=5&excludeRewardRules=true
```

## 3.8.2 List all rules from the member context

This method returns the list of rules, including additional information like the remaining earnable amount for the current day (see 3.7.4 Reading a rule from the member context ).

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltymember/{personId}/loyaltyrule
```

To read the rules as an enduser, you must use this resource:

```
GET {URL_Loyalty}/me/loyaltyrule
```

| Paramètre URL | Description |
|---|---|
| personId | Identifier of the loyalty member or of the person |

This method accepts the optional URL parameters:

| URL parameter | Description | Value |
|---|---|---|
| page | The page number to be returned | Default value is 1 |
| pageSize | The page size | Default value is 100 |

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The API returns a list of contextualized rules.

Example 1 : Reading rules with a page size of 5 items, from a the context of a member:

```
GET {URL_tropicloyalty}/loyaltymember/1d26ba2716d2471c9cf65279f1240807/loyaltyrule?page=1&pageSize=5
```

### 3.8.3 Reading a rule

This method returns the corresponding rule if it exists, with all of its properties.

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyrule/{id}
```

| URL parameter | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the rule to be read |
| id | Identifier of the rule to be read |

Several types of rules exist. The common properties for all rules are:

| Properties | Type | Description |
|---|---|---|
| Id | string | rule id |
| Name | string | Name of the rule |
| Label | string | Commercial name of the rule |
| Description | string | Description of the rule |
| Terms | string | Description of the legal conditions |
| ImageUri | string | Uri of the associated visual (visual hosted in Digitaleo's content library) |
| ThumbnailUri | string | Uri of the thumbnail of the associated visual (visual hosted in Digitaleo's content library) |
| StartDate | DateTime | Start date of the validity of the rule in UTC |
| EndDate | DateTime | End date of the validity of the rule in UTC |
| IsPublic | boolean | A value indicating if the rule should be displayed in the clienteling and end user application |
| loyaltyEventType | LoyaltyEventType | Type of event linked to the rule |
| loyaltyClauses | List of | Clauses that must be valid to trigger the rule |

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| | LoyaltyClause | |
|---|---|---|

Additional properties for rules of type "LoyaltyEarnRule":

| Properties | Type | Description |
|---|---|---|
| countPoints | number | Number of points to give to the member if the rule is triggered, proportional to "countUnits" |
| countUnits | number | Number of units |
| maxCumulativePoints | number | Maximum earnable points for a day |
| CampaignId | string | Id of the Digitaleo campaign to use to send messages to a member when a rule is triggered |
| CountPointsForSponsor | number | [available only for sponsor rules] Number of points to give to the sponsor member |

### 3.8.4 Reading a rule from the member context

This method returns the corresponding member rule if it exists, with all of its properties :

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltymember/{personId}/loyaltyrule/{id}
```

| URL parameter | Description |
|---|---|
| personId | Identifier of the loyalty member or of the person |
| id | Identifier of the rule to be read |

The returned resource is a member rule. Several types of member rules exist. The common properties for all member rules are:

| Properties | Type | Description |
|---|---|---|
| Id | string | rule id |
| Name | string | Name of the rule |
| Label | string | Commercial name of the rule |
| Description | string | Description of the rule |
| Terms | string | Description of the legal conditions |

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| ImageUri | string | Uri of the associated visual (visual hosted in Digitaleo's content library) |
|---|---|---|
| ThumbnailUri | string | Uri of the thumbnail of the associated visual (visual hosted in Digitaleo's content library) |
| StartDate | DateTime | Start date of the validity of the rule in UTC |
| EndDate | DateTime | End date of the validity of the rule in UTC |
| IsValid | boolean | A value indicating if the rule would be applied at the current time |
| loyaltyEventType | LoyaltyEventType | Type of event linked to the rule |
| RemainingCappingUsage | MemberLoyaltyCappingClause | If a capping clause is defined for the rule, this object has the informations about the remaining possible usage |

The structure of "MemberCappingClause" is :

| Properties | Type | Description |
|---|---|---|
| MaxCountAllowed | number | Maxmum number of triggers for the rule |
| IntervalType | string | Interval to use to limit this rule. Possible values are: "Hour", "Day", "Month", "Infinite" |
| CountInterval | number | Number of units of the interval to use to limit this rule |
| RemainingNbOfUse | number | Number of remaining triggers for this rule |

Additional properties for rules of type "MemberEarnRule":

| Properties | Type | Description |
|---|---|---|
| countPoints | number | Number of points to give to the member if the rule is triggered, proportional to "countUnits" |
| countUnits | number | Number of units |
| maxCumulativePoints | number | Maximum earnable points for a day |
| RemainingEarnableAmount | number | the remaining earnable amount for the member on the current day |

## 3.8.5 List all the available event types

The rules are associated to event types. These event types are a fixed list which can be read from the API:

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This resource is allowed to roles: api, admin, network, user

```
GET {URL_Loyalty}/loyaltyeventtype
```

This method accepts the optional URL parameters:

| URL parameter | Description | Value |
|---|---|---|
| unitType | The unit type of the event types : "Money" or "Points" | Default value is "Points" |

The returned properties are:

| Properties | Type | Description |
|---|---|---|
| Id | string | Event type id |
| Name | string | Name of event type |
| UnitType | string | Unit type of the event : "Points" or "Money" |
| Category | string | Category of the event : |
| EventType | string | Type of the event : "UpdateProfile", "StoreCheckin", "Reward", "Buy", "FacebookLikePage", "FacebookLikePost", "FacebookCommentPost", "Selfie", "Sponsor", "SignUp" |
| EventSources | list | The sources authorized to create the event |

## 3.8.6 Creating a rule

This resource is allowed to roles: api, admin, network, user

```
POST {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyrule
```

| Paramètre URL | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program for which the rule will be created |

| POST parameters | Type | Description |
|---|---|---|
| $type | string | "LoyaltyEarnRule" or "LoyaltySPonsorRule" |
| Name | string | Name of the rule |

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| Label | string | Commercial name of the rule |
|---|---|---|
| Description | string | Description of the rule |
| Terms | string | Description of the legal conditions |
| ImageUri | string | Uri of the associated visual (visual hosted in Digitaleo's content library) |
| ThumbnailUri | string | Uri of the thumbnail of the associated visual (visual hosted in Digitaleo's content library) |
| StartDate | DateTime | Start date of the validity of the rule in UTC |
| EndDate | DateTime | End date of the validity of the rule in UTC |
| IsPublic | boolean | A value indicating if the rule should be displayed in the clienteling and end user application |
| loyaltyEventType | LoyaltyEventType | Type of event linked to the rule (see 3.7.5) |
| loyaltyClauses | List of LoyaltyClause | Clauses that must be valid to trigger the rule |

Additional properties for rules of type "LoyaltyEarnRule":

| Properties | Type | Description |
|---|---|---|
| countPoints | number | Number of points to give to the member if the rule is triggered, proportional to "countUnits" |
| countUnits | number | Number of units |
| maxCumulativePoints | number | Maximum earnable points for a day |
| CampaignId | string | Id of the Digitaleo campaign to use to send messages to a member when a rule is triggered |
| CountPointsForSponsor | number | [available only for sponsor rules] Number of points to give to the sponsor member |

The clauses informations must be into the rule parameter "loayltyClauses", so the clauses will be created with the associated rule. The available clauses values are:

| Properties | Type | Description |
|---|---|---|
| $type | string | LoyaltyCappingClause |
| maxCountAllowed | number | Maxmum number of triggers for the rule |
| intervalType | string | Interval to use to limit this rule. Possible values are:: "Hour", "Day", "Month", "Infinite" |

| countInterval | number | Number of units of the interval to use to limit this rule |
|---|---|---|

| Properties | Type | Description |
|---|---|---|
| $type | string | LoyaltyDayClause |
| dayOfWeek | number | Day of the week concerned by this rule |

| Properties | Type | Description |
|---|---|---|
| $type | string | LoyaltyTimeClause |
| startTime | time | Start of the hour span concerned by this rule |
| endTime | time | End of the hour span concerned by this rule |

| Properties | Type | Description |
|---|---|---|
| $type | string | LoyaltyProductClause |
| productReferences | List of strings | List of product references concerned by the rule |
| inclusionType | string | Defines if the rule must be trigger if the references are or are not in the event. Possible values: "include", "exclude" |

| Properties | Type | Description |
|---|---|---|
| $type | string | LoyaltyProductFamilyClause |
| productFamilies | List of strings | List of product families concerned by the rule |
| inclusionType | string | Defines if the rule must be trigger if the categories are or are not in the event. Possible values: "include", "exclude" |

| Properties | Type | Description |
|---|---|---|
| $type | string | LoyaltyTagClause |
| tags | List of strings | List of product tags concerned by the rule |
| inclusionType | string | Defines if the rule must be trigger if the tags are or are not in the event. Possible values: "include", "exclude" |

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Example 1: Create a rule which grants 20% of the buying amount, limited to 100€ per day, and make it public

```
{
  "$type" : "LoyaltyEarnRule",
  "countPoints" : 20,
  "countUnits" : 100,
  "Name" : "20% of total amount",
  "maxCumulativePoints" : 100,
  "Description" : "Come in store and get a 20% discount on everything !",
  "Terms" : "The amount will be added to the purse related to your loyalty account.",
  "imageUri" : "https://datas.messengeo.net/8bf61ecfdfe0b837fe67f9f523cf7922/soldes.jpg",
  "loyaltyEventType" : {
    "Id" : "570f61c57dc2c684c9e2aa83",
    "Name" : "Percentage of the purchase amount",
    "unitType" : "money",
    "Category" : "Buyings",
    "eventType" : "buy",
    "extraData" : "percentage",
    "eventSources" : ["store"],
  },
  "isPublic" : true
}
```

Example 2: Create a rule which grants 2€ if the mobile number is set, in the limit of one time for 6 months

```
{
  "$type" : "LoyaltyEarnRule",
  "countPoints" : 2,
  "countUnits" : 0,
  "Name" : "Mobile set",
  "Description" : "Set your mobile phone number"
  "loyaltyEventType" : {
    "Id" : "570f61c57dc2c684c9e2aa96",
    "Name" : "New mobile",
    "unitType" : "money",
    "Category" : "Relationnal",
    "eventType" : "updateProfile",
    "extraData" : "mobile",
    "eventSources" : ["mobile", "clienteling"],
  },
  "loyaltyClauses" : [
    {
      "$type" : "LoyaltyCappingClause",
      "maxCountAllowed" : 1,
      "intervalType" : "month",
```

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```
        "countInterval" : 6
    }
  ],
}
```

### 3.8.7 Modifying a rule

This resource is allowed to roles: api, admin, network, user

```
PUT {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyrule/{id}
```

| URL parameter | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the rule to be modified |
| id | Identifier of the rule to be modified |

For the PUT parameters, refer to the parameters for creating a rule.

### 3.8.8 Deleting a rule

This resource is allowed to roles: api, admin, network, user

```
DELETE {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyrule/{id}
```

| Paramètre URL | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the rule to delete |
| id | Identifier of the rule to delete |

## 3.9 Goodwill gestures

### 3.9.1 List all goodwill gestures

This method returns the list of goodwill gestures of the loyalty program

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyreward
```

| Paramètre URL | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the rules to be read |

This method accepts the optional URL parameters:

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| URL parameter | Description | Value |
|---|---|---|
| page | The page number to be returned | Default value is 1 |
| pageSize | The page size | Default value is 100 |

The API returns a list of rules.

## 3.9.2 List all goodwill gestures from the member context

This method returns the list of goodwill gestures, including additional information like the remaining earnable amount for the current day.

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltymember/{personId}/loyaltyreward
```

| Paramètre URL | Description |
|---|---|
| personId | Identifier of the loyalty member or of the person |

This method accepts the optional URL parameters:

| URL parameter | Description | Value |
|---|---|---|
| page | The page number to be returned | Default value is 1 |
| pageSize | The page size | Default value is 100 |

The API returns a list of contextualized goodwill gestures.

Example 1 : Reading goodwill gestures with a page size of 5 items, from a the context of a member:

```
GET {URL_tropicloyalty}/loyaltymember/1d26ba2716d2471c9cf65279f1240807/loyaltyreward?page=1&pageSize=5
```

## 3.9.3 Reading a goodwill gesture

This method returns the corresponding goodwill gesture if it exists, with all its properties.

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyreward/{id}
```

| URL parameter | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the rule to be read |
| id | Identifier of the goodwill gesture to be read |

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A goodwill gesture is a rule of type "LoyaltyEarnRule", with the event type "reward". See section "reading a rule" to know the parameters.

## 3.9.4 Reading a goodwill gesture from the member context

This method returns the corresponding goodwill gesture if it exists, with all its properties, and additional information linked to the member.

This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_Loyalty}/loyaltymember/{personId}/loyaltyrule/{id}
```

| URL parameter | Description |
|---|---|
| personId | Identifier of the loyalty member or of the person |
| id | Identifier of the goodwill gesture to be read |

The returned resource is a member rule, see 3.7.4 Reading a rule from the member context for the properties.

## 3.9.5 Creating a goodwill gesture

This resource is allowed to roles: api, admin, network, user, clienteling

```
POST {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyreward
```

| Paramètre URL | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program for which the goodwill gesture will be created |

See section "creating a rule" to know the parameters. The resource must have a "reward" event type.

Example : Create a goodwill gesture which grants 200 points to a member, to compensate a long wait at checkout. The goodwill is valid only from December 1 to December 31.

```
{
  "$type" : "LoyaltyEarnRule",
  "countPoints" : 200,
  "countPointsForSponsor" : 0,
  "countUnits" : 0,
  "Name" : "200 points for long wait at checkout",
  "loyaltyEventType": {
    "Id" : "55b8d313ec0ac8c882a18613",
    "Name" : "Reward",
    "unitType" : "points",
    "Category" : "Manual attribution",
```

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```
      "eventType" : "reward",
      "eventSources" : ["store","clienteling"]
  },
  "startDate" : "2016-12-01T00:00:00+02:00",
  "endDate" : "2016-12-11T00:00:00+02:00"}
```

## 3.9.6 Modifying a goodwill gesture

This resource is allowed to roles: api, admin, network, user, clienteling

```
PUT {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyreward/{id}
```

| URL parameter | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the goodwill gesture to be modified |
| id | Identifier of the goodwill gesture to be modified |

For the PUT parameters, refer to the parameters for creating a goodwill gesture.

## 3.9.7 Deleting a goodwill gesture

This resource is allowed to roles: api, admin, network, user, clienteling

```
DELETE {URL_Loyalty}/loyaltyProgram/{loyaltyProgramId}/loyaltyreward/{id}
```

| Paramètre URL | Description |
|---|---|
| loyaltyProgramId | Identifier of the loyalty program carrying the goodwill gesture to delete |
| id | Identifier of the goodwill gesture to delete |

## 3.10 Physical card numbers management

### 3.10.1 Check if a physical card number exists and is valid
This resource is allowed to roles: api, admin, network, user, clienteling

```
GET {URL_PhysicalCard}/physicalcard/{cardNumber}
```

| Paramètre URL | Description |
|---|---|
| cardNumber | The card number to be tested |

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The API return a 200 ok with the physical card number status inside:

| Field | Description |
|-------|-------------|
| Status | The card number status. Available values: "found", "notfound", "invalid" |

Examples:

Testing the existence of a valid physical card number:

```
{URL_PhysicalCard}/physicalcard/0594645631076
```

```
{
  "Status": "found"
}
```

Testing the existence of an invalid physical card number:

```
{URL_PhysicalCard}/physicalcard/azerty
```

Http status code: 200 ok

```
{
  "Status": "invalid"
}
```

## 3.11 Signup fields

The signup fields resource provide information about the fields required and optional for the signup process.

### 3.11.1 Getting the signup fields

This resource is allowed to roles: sdk

```
GET {URL_CustomerMaster}/organization/signup/fields
```

The API return a 200 ok with the signup fields list.

| Field | Description |
|-------|-------------|
| Field | Technical name of the field |
| Label | Label of the field |
| Required | A boolean value indicating if the field is required or optional |
| Type | The field type: text, numeric, date, select, radio, checkbox, textarea, storelocator |

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| Position | The field index in the signup form |
|---|---|
| Values | Optional: A list of values for field of type select or radio |

## 3.12 End user account management

The resource login could be used to create an end user account and set the required information (see 3.11 Signup fields) or to reset its password. Other operations like updating the user profile must be done by calling the Person resource

### 3.12.1 Create a new end user account

This resource is allowed to roles: sdk

```
POST {URL_CustomerMaster}/login
```

| POST parameters | Type | Description |
|---|---|---|
| AuthenticationProviderName | string | Authentication provider name. Must be Digitaleo or Facebook |
| ExternalId | string | External id.<br><br>If the authentication provider is Digitaleo its must be complex object with the email address as login and the password, otherwise its a unique id in the external authentication provider |
| Email | string | The end user email address |
| FirstName | string | The end user first name |
| LastName | string | The end user last name |
| Brand | string | The brand name |

Additional fields could be required depending of the configuration. See 3.11 Signup fields for details.

The API response with a HTTP/1.1 201 Created if account has been created, HTTP/1.1 409 Conflict if the login already exists and HTTP/1.1 400 Bad Request otherwise

Exemple:
Creating a end user account with a Digitaleo authentication provider name:

```
{
 "authenticationProviderName":"Digitaleo",
  "externalId": { "login": "test", "password": "azerty" },
```

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```
  "email":"sample@test.local",

 "lastName":"Tests",

 "firstName":"Unit",

 "brand": "Slurm",

}
```

## 3.13 Store management

### 3.13.1 Getting all store information

This resource is allowed to roles: sdk, clienteling, admin

```
GET {URL_CustomerMaster}/store
```

The API return a 200 ok with the signup fields list.

| Field | Description |
|---|---|
| Id | The store id |
| LastName | The store name |
| Address1 | |
| Address2 | |
| ZipCode | The store zip code |
| City | The store city |
| Longitude | The store longitude |
| Latitude | The store latitude |
| Reference | The store reference |

The API return a 200 Ok with the following structure:

```
[
  {
    "id": "98315631",
    "lastName": "Fleury",
    "mobile": "+33637784333",
    "address1": "Cours Camille Claudel",
    "address2": "",
    "city": "Saint Jacques de la lande",
    "country": "France",
    "reference": "FR35R003",
    "latitude": "48.0821",
    "longitude": "-1.71371"
  },
```

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```json
  {
    "id": "98315627",
    "lastName": "Blvd Leclerc",
    "address1": "183 Rue de Chatillon",
    "address2": "",
    "city": "RENNES",
    "country": "",
    "reference": "FR35R009",
    "latitude": "48.0888",
    "longitude": "-1.67194"
  }
]
```

## 3.14 Organization parameters (CGU, web site url, etc, etc, etc)

### 3.14.1 Reading parameters
This resource is allowed to roles: sdk, user, network, admin

```
GET {URL_CustomerMaster}/organization
```

The API return a 200 ok with the signup fields list.

| Field | Description |
| --- | --- |
| Name | The organization name |
| WebsiteUrl | The web site url |
| GcuUrl | The GCU url |
| MainColor | The main color to be used in communication |
| NeutralColor | The neutral color to be used in communication |
| WelcomeImageUrl | The welcome image url |

## 3.15 Contextualized information on loyalty member

### 3.15.1 Reading the information for a specific member
This resource is allowed to roles: user, network, admin, api, clienteling

This resource returns the rules, vouchers, immediate benefits and purse information for a specific loyalty member.

```
GET {URL_Loyalty}/loyaltymember/{personId}
```

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The API return a 200 ok with the rules, vouchers, immediate benefits and purse information for the member.

```
{
  "rules": [],
  "vouchers": [],
  "purse": {
    "availableAmount": 0,
    "maxAmount": 0
  },
  "immediateBenefits": []
}
```

**References:**
For rules format, see 3.8.2 List all rules from the member context.
For vouchers format, see 3.5.3 List of vouchers of a member of the loyalty program.
For purse format, see 3.6.1 Get purse informations of a member.
For immediate benefits, see 3.7.2 List all immediate benefits from the member context.

## 3.16 Loyalty transactions history

This resource is allowed to roles: clienteling, api

This resource returns the loyalty transactions for a member.

```
GET {URL_Loyalty}/loyaltymember/{personId}/loyaltytransaction
```

| Field | Description |
| --- | --- |
| personId | The person id |

The API return the following data:

```
[
    {
            "label":"Euros expirés",
            "count":-300.0,
            "date":"2016-11-23T13:09:31.379Z",
            "unitType":"money",
            "transactionType":"pointsExpiration",
            "id":"5835950b73641620483e2318",
            "dateCreated":"2016-11-23T13:09:31.379Z",
            "dateUpdated":"2016-11-23T13:09:31.379Z"
    },
    {
            "loyaltyRule_Id":"55d6e2e940cc2906e0efba78",
            "label":"Compensatoire = 100 points pour le parking",
            "event_Id":"5763aad00689e510941c3f74",
```

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```
            "count":100.0,
            "date":"2016-06-17T07:46:25.000Z",
            "unitType":"points",
            "transactionType":"earnRule",
            "id":"5763aad40689e513508568da",
            "dateCreated":"2016-06-17T07:46:28.028Z",
            "dateUpdated":"2016-06-17T07:46:28.028Z"
    },
    {

            "loyaltyVoucher_Id":"5763aac10689e51544ca672c",
            "label":"300 points = 10%",
            "Count":-300.0,
            "date":"2016-06-17T07:46:09.150Z",
            "unitType":"points",
            "transactionType":"offerUse",
            "id":"5763aac10689e51544ca672d",
            "dateCreated":"2016-06-17T07:46:09.150Z",
            "dateUpdated":"2016-06-17T07:46:09.150Z"
    }
]
```

| Field | Description |
|---|---|
| Id | The transaction id |
| label | The transaction label |
| LoyaltyVoucher_id | The voucher id created by this transaction |
| LoyaltyRule_id | The rule id which has created this transaction |
| Count | The unit count added or removed |
| UnitType | The unit type: Points or Money |
| Date | The transaction date |
| TransactionType | The transaction type: OfferUse, EarnRule, PointsExpiration, OfferUse, PurseUse, ImmediateBenefitUse, UnitsSpending, VoucherGift. |
| Event_id | The event id which is related to this transaction if any |

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