

A large green graphic element on the left side of the page. It consists of a vertical bar on the far left, a horizontal arrow pointing to the right, and a shorter horizontal bar below the arrow. The year "2020" is centered within the arrow.

2020

LeaveDays

API Documentation

CHAPTER 1: LEAVEDAYS / VRIJEDAGEN.NL API AND OAUTH 2.0	5
1.1 Necessary parameters	5
API Call.....	6
1.2 Using an Access Token in an API	7
CHAPTER 2: RETRIEVE EMPLOYEES PER ADMINISTRATION	8
2.1 Retrieving the administrations	8
API Call.....	8
2.2 Filtering employees via the OData API	9
API Call.....	9
CHAPTER 3: LEAVEDAYS / VRIJEDAGEN.NL ODATA API	11
3.1 Weeks	11
3.1.1 https://{url}/odata/Weeks('{key}').....	11
3.1.2 https://{url}/odata/Weeks('{key}')/Events.....	12
3.1.3 https://{url}/odata/Weeks('{key}')/Requests.....	14
3.2 Administrations	15
3.2.1 https://{url}/odata/Administrations.....	15
3.2.2 https://{url}/odata/Administrations('{key}')	16
3.2.3 https://{url}/odata/Administrations('{key}')/Departments.....	17
3.2.4 https://{url}/odata/Administrations('{key}')/LeaveTypes.....	18
3.3 Departments	20
3.3.1 https://{url}/odata/Departments	20
3.3.2 https://{url}/odata/Departments('{key}').....	21
3.3.3 https://{url}/odata/Departments('{key}')/Administration.....	22
3.4 Events	23
3.4.1 https://{url}/odata/Events.....	23
3.4.2 https://{url}/odata/Events('{key}')	25
3.4.3 https://{url}/odata/Events('{key}')/Employee	26
3.4.4 https://{url}/odata/Events('{key}')/Balance.....	28

3.5 Requests	28
3.5.1 https://{url}/odata/Requests	28
3.5.1 https://{url}/odata/Requests('{key}')	32
3.5.3 https://{url}/odata/Requests('{key}')/Service.Approve()	33
3.5.4 https://{url}/odata/Requests('{key}')/Service.Reject()	33
3.5.5 https://{url}/odata/Requests('{key}')/Events	34
3.6 Employees	35
3.6.1 https://{url}/odata/Employees	35
3.6.2 https://{url}/odata/Employees('{key}')	37
3.6.3 https://{url}/odata/Employees('{key}')/Authorizer	39
3.6.4 https://{url}/odata/Employees('{key}')/Department	40
3.6.5 https://{url}/odata/Employees('{key}')/ContractChanges	41
3.6.6 https://{url}/odata/Employees('{key}')/Weeks('{relatedKey}')	42
3.7 Contract changes	44
3.7.1 https://{url}/odata/ContractChanges	44
3.7.2 https://{url}/odata/ContractChanges('{key}')	45
3.8 Owners	46
3.8.1 https://{url}/odata/Owners	46
3.8.2 https://{url}/odata/Owners('{key}')	47
3.8.3 https://{url}/odata/Owners('{key}')/Balances	48
3.8.4 https://{url}/odata/Owners('{key}')/PendingRequests	49
3.9 Users	50
3.9.1 https://{url}/odata/Users	50
3.9.2 https://{url}/odata/Users('{key}')	51
3.9.3 https://{url}/odata/Users('{key}')/Roles	52
3.10 Types of leave	53
3.10.1 https://{url}/odata/LeaveTypes	53
3.10.2 https://{url}/odata/LeaveTypes('{key}')	54
3.11 Active users	55
3.11.1 https://{url}/odata/ActiveAuthorizer	55
3.11.2 https://{url}/odata/ActiveAuththorizer/RequestsToBeAssessed	56
3.11.3 https://{url}/odata/ActiveOwner	57
3.11.4 https://{url}/odata/ActiveOwner/PendingRequests	58
3.11.5 https://{url}/odata/ActiveOwner/Balances	59
3.11.6 https://{url}/odata/ActiveOwner/EventsInMonth('{key}')	60
CHAPTER 4: LEAVEDAYS / VRIJEDAGEN.NL REST API	62
4.1 Resources	62
4.2 General functionality	64

4.3 Description of Resources	66
4.3.1 User	66
4.3.2 Role	66
4.3.3 Owner.....	66
4.3.4 Employee	66
4.3.5 Authorizer.....	66
4.3.6 Request.....	66
4.3.7 Event	66
4.3.8 Balance.....	67
4.3.9 ContractChange	67
4.3.10 Department	67
4.3.11 Administration.....	67
4.3.12 Week	67
CHAPTER 5: ADAPTATIONS	68
5.1 Create adaptation	68
Description of the process.....	68
API Call.....	69
API Call.....	70
API Call.....	71
5.2 Retrieve employees	73
API-call.....	73
5.3 Retrieve employee balances	74
API-call.....	74
5.4 Retrieve adaptations	76
API-call.....	76
5.5 Addition adaptation	78
API-call.....	78
5.6 Deduction adaptation	80
API-call.....	80
5.7 Payment adaptation	82
API-call.....	82
5.8 Delete adaptation	84
API-call.....	84

Chapter 1: LeaveDays / VrijeDagen.nl API and OAuth 2.0

Introduction

This chapter will outline which call to the authorisation server is needed to get an Access Token. To determine your identity and your permissions, certain parameters should be included in the call. A clear description of the process will follow.

When you are ready to get linked up, you will need a ClientID and a ClientSecret. Contact the LeaveDays support desk (support@leavedays.com), and they will provide you with these as soon as possible.

1.1 Necessary parameters

1.1.1 ClientID

This will be provided by our team and will need to be copied exactly.

1.1.2 ClientSecret

This will be provided by our team and will need to be copied exactly.

1.1.3 Username

The username of the user with the necessary permissions who is registered in the new administration.

1.1.4 Password

The password belonging to the username.

API Call

This call retrieves the Access Token.

Request

POST: <https://login.vrijedagen.nl/connect/token>

```
client_id={ClientID}&  
client_secret={ClientSercet}&  
grant_type=password&  
username={Username}&  
password={Password}&  
scope=api1 profile openid
```

Form-encoding deleted and white space added for legibility.

Response

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

```
{  
  
  "access_token": "TOKEN",  
  "expires_in": 3600,  
  "token_type": "Bearer"  
}
```

1.2 Using an Access Token in an API

Once you have your token, you can add it to the 'Headers' of the API-Call as 'Authorization'.

The header that needs to be entered is as follows:

Key: Authorization **Value:** "Bearer 2aqx31..."

A space is necessary between the token type and the access token. These input values can be found in the response from the authorisation server.

Attention! Access Tokens will be valid for one hour after being requested, and thus you will need to make a new request after an hour.

Chapter 2: Retrieve employees per administration

Introduction

This chapter will outline which calls are needed to retrieve the administrations, and how to filter employees via the OData API. A clear description of the process will follow.

2.1 Retrieving the administrations

All administrations registered in the LeaveDays system can be retrieved via the LeaveDays OData API.

API Call

Request

GET: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Administrations](https://[[your-hostname]].vrijedagen.nl/odata/Administrations)

Response

HTTP/1.1 200 OK

Content-Type: application/json

```
{
"@odata.context": "https://[[your-
hostname]].vrijedagen.nl/odata/$metadata#Administrations", "value": [
{ "AdministrationId": "130!1",
"Name": "Administration1"
},
{ "AdministrationId": "130!1",
"Name": "Administration1"
}
]
}
```


2.2 Filtering employees via the OData API

OData offers the possibility to filter in the call. To use the filter, the Id of the administration, which was retrieved earlier, must be used.

API Call

Request

Call for retrieving employees in a specific administration.

GET: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Owners?\\$filter=AdministrationId_eq_'130!1'](https://[[your-hostname]].vrijedagen.nl/odata/Owners?$filter=AdministrationId_eq_'130!1')

Response

HTTP/1.1 200 OK

Content-Type: application/json

```
{
  "@odata.context": "https://[[your-
hostname]].vrijedagen.nl/odata/$metadata#Owners",
  "value": [
    {
      "OwnerId": "100!10",
      "UserId": "00000000-0000-0000-0000-000000000000",
      "Name": "Employee, Example 1",
      "ExternalNumber": "001",
      "PendingReqeustCount": 0,
      "ShowSick": false,
      "ShowAbsent": false,
      "AdministrationName": "Administration1",
      "AdministrationId": "130!1"
    },
    {
      "OwnerId": "100!16",
      "UserId": "00000000-0000-0000-0000-000000000000",
      "Name": "Employee, Example 2",
      "ExternalNumber": "002",
      "PendingReqeustCount": 1,
      "ShowSick": false,
      "ShowAbsent": false,
      "AdministrationName": "Administration1",
      "AdministrationId": "130!1"
    }
  ]
}
```

Chapter 3: LeaveDays / VrijeDagen.nl OData API

Introduction

This chapter will explain how to use the OData API. Open Data Protocol (OData) is an open protocol for developing and integrating REST API's. This API takes data from databases, content management systems and websites, and unlocks it for third party applications. REST is an architectural standard in which the client and server are separated.

3.1 Weeks

3.1.1 [https://{url}/odata/Weeks\('{key}'\)](https://{url}/odata/Weeks('{key}'))

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Weeks\('2014-46'\)](https://[[your-hostname]].vrijedagen.nl/odata/Weeks('2014-46'))

Response:

```
{  
  
  "@odata.context": "https://\[\[your-hostname\]\].vrijedagen.nl/odata/\$metadata#Weeks/\$entity",  
  "WeekId": "2014-46",  
  "Year": 2014,  
  "WeekNr": 46,  
  "FirstDate": "2014-11-10T00:00:00+01:00",  
  "LastDate": "2014-11-17T00:00:00+01:00"  
}
```

3.1.2 [https://{url}/odata/Weeks\('{key}'\)/Events](https://{url}/odata/Weeks('{key}')/Events)

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Weeks\('2014-46'\)/Events](https://[[your-hostname]].vrijedagen.nl/odata/Weeks('2014-46')/Events)

Response:

```
{
```

```
  "@odata.context": "https://\[\[your-hostname\]\].vrijedagen.nl/odata/\$metadata#Events",
```

```
  "value": [
```

```
    {
```

```
      "EventId": "172!5364",
```

```
      "Period": {
```

```
        "Begin": "2014-11-13T08:30:00+01:00",
```

```
        "End": "2014-11-13T17:00:00+01:00",
```

```
        "Value": 480
```

```
      },
```

```

    "Description": "",
    "BalanceId": "149!35",
    "LeaveName": "Normal leave",
    "LeaveTypeId": "142!19",
    "UsesSmallBreakMorning": false,
    "UsesSmallBreakAfternoon": false,
    "SmallBreakMorning": 0,
    "SmallBreakAfternoon": 0
  },
  {
    "EventId": "172!5376",
    "Period": {
      "Begin": "2014-11-13T08:30:00+01:00",
      "End": "2014-11-13T17:00:00+01:00",
      "Value": 480
    },
    "Description": "",
    "BalanceId": "149!62",
    "LeaveName": "Normal leave",
    "LeaveTypeId": "142!19",
    "UsesSmallBreakMorning": false,
    "UsesSmallBreakAfternoon": false,
    "SmallBreakMorning": 0,
    "SmallBreakAfternoon": 0
  }
]
}

```

3.1.3 [https://{url}/odata/Weeks\('{key}'\)/Requests](https://{url}/odata/Weeks('{key}')/Requests)

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Weeks\('2014-46'\)/Requests](https://[[your-hostname]].vrijedagen.nl/odata/Weeks('2014-46')/Requests)

Response:

```
{  
  
  "@odata.context": "https://\[\[your-hostname\]\].vrijedagen.nl/odata/\$metadata#Requests",  
  "value": [  
    {  
      "RequestId": "67!4990",  
      "State": "being_requested",  
      "RequestedOn": "2014-11-12T15:06:55.827+01:00",  
      "IsOverTime": false,  
      "AutoApprove": false,  
      "Employee": "98!185",  
      "Reason": "",  
      "Total": 480  
    }  
  ]  
}
```

3.2 Administrations

3.2.1 <https://{url}/odata/Administrations>

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Administrations](https://[[your-hostname]].vrijedagen.nl/odata/Administrations)

Response:

```
{  
  
  "@odata.context": "https://\[\[your-hostname\]\].vrijedagen.nl/odata/\$metadata#Administrations",  
  "value": [  
    {  
      "AdministrationId": "128!4",  
      "Name": "Debug-sprint-27"  
    }  
  ]  
}
```

3.2.2 [https://{url}/odata/Administrations\('{key}'\)](https://{url}/odata/Administrations('{key}'))

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Administrations\('128!4'\)](https://[[your-hostname]].vrijedagen.nl/odata/Administrations('128!4'))

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Administrations/$entity",
  "AdministrationId": "128!4",
  "Name": "Debug-sprint-27"
}
```


3.2.3 [https://{url}/odata/Administrations\('{key}'\)/Departments](https://{url}/odata/Administrations('{key}')/Departments)

GET

Function

Call: [https://\[your-hostname\].vrijedagen.nl/odata/Administrations\('128!4'\)/Departments](https://[your-hostname].vrijedagen.nl/odata/Administrations('128!4')/Departments)

Response:

```
{
  "@odata.context": "https://[your-hostname].vrijedagen.nl/odata/$metadata#Departments",
  "value": [
    {
      "DepartmentId": "70!29",
      "Name": "Default",
      "AdministrationId": "128!4"
    },
    {
      "DepartmentId": "70!4010",
      "Name": "another department ",
      "AdministrationId": "128!4"
    }
  ]
}
```

3.2.4 [https://{url/odata/Administrations\('{key'\)}/LeaveTypes](https://{url/odata/Administrations('{key')}/LeaveTypes)

GET

Function

Call: [https://\[your-hostname\].vrijedagen.nl/odata/Administrations\('128!4'\)/LeaveTypes](https://[your-hostname].vrijedagen.nl/odata/Administrations('128!4')/LeaveTypes)

Response:

```
{
  "@odata.context": "https://\[your-hostname\].vrijedagen.nl/odata/\$metadata#LeaveTypes",
  "value": [
    {
      "LeaveTypeId": "142!19",
      "AdministrationId": "128!4",
      "Name": "Normal leave",
      "IsOverTime": false
    },
    {
      "LeaveTypeId": "142!21",
      "AdministrationId": "128!4",
      "Name": "Special leave",
      "IsOverTime": false
    },
    {
      "LeaveTypeId": "142!23",
      "AdministrationId": "128!4",
      "Name": "ATV",
      "IsOverTime": false
    }
  ]
}
```

```
{  
  "LeaveTypeId": "142!25",  
  "AdministrationId": "128!4",  
  "Name": "Doctor's visit",  
  "IsOverTime": false  
},  
{  
  "LeaveTypeId": "142!27",  
  "AdministrationId": "128!4",  
  "Name": "Time off in lieu",  
  "IsOverTime": true  
},  
{  
  "LeaveTypeId": "142!2915",  
  "AdministrationId": "128!4",  
  "Name": "Sick",  
  "IsOverTime": false  
}  
]  
}
```

3.3 Departments

3.3.1 <https://{url}/odata/Departments>

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Departments](https://[[your-hostname]].vrijedagen.nl/odata/Departments)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Departments",
  "value": [
    {
      "DepartmentId": "70!29",
      "Name": "Default",
      "AdministrationId": "128!4"
    },
    {
      "DepartmentId": "70!4010",
      "Name": "another department",
      "AdministrationId": "128!4"
    }
  ]
}
```

3.3.2 [https://{url}/odata/Departments\('{key}'\)](https://{url}/odata/Departments('{key}'))

GET

Function

Call: [https://\[your-hostname\].vrijedagen.nl/odata/Departments\('70!29'\)](https://[your-hostname].vrijedagen.nl/odata/Departments('70!29'))

Response:

```
{  
  "@odata.context": "https://\[your-hostname\].vrijedagen.nl/odata/\$metadata#Departments/\$entity",  
  "DepartmentId": "70!29",  
  "Name": "Default",  
  "AdministrationId": "128!4"  
}
```

3.3.3 [https://{url}/odata/Departments\('{key}'\)/Administration](https://{url}/odata/Departments('{key}')/Administration)

GET

Function

Call: [https://\[your-hostname\].vrijedagen.nl/odata/Departments\('70!29'\)/Administration](https://[your-hostname].vrijedagen.nl/odata/Departments('70!29')/Administration)

Response:

```
{  
  "@odata.context": "https://\[your-hostname\].vrijedagen.nl/odata/\$metadata#Administrations/\$entity",  
  "AdministrationId": "128!4",  
  "Name": "Debug-sprint-27"  
}
```

3.4 Events

3.4.1 <https://{url}/odata/Events>

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Events](https://[[your-hostname]].vrijedagen.nl/odata/Events)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Events",
  "value": [
    {
      "EventId": "172!5480",
      "Period": {
        "Begin": "2014-11-24T08:30:00+01:00",
        "End": "2014-11-24T17:00:00+01:00",
        "Value": 480
      },
      "Description": "",
      "BalanceId": "149!189",
      "LeaveName": "Normal leave",
      "LeaveTypeId": "142!19",
      "UsesSmallBreakMoring": false,
      "UsesSmallBreakAfternoon": false,
      "SmallBreakMoring": 0,
      "SmallBreakAfternoon": 0
    }
  ],
}
```

```
{  
  "EventId": "172!5326",  
  "Period": {  
    "Begin": "2014-11-26T17:00:00+01:00",  
    "End": "2014-11-26T19:00:00+01:00",  
    "Value": 120  
  },  
  "Description": "gh",  
  "BalanceId": "149!201",  
  "LeaveName": "Time off in lieu",  
  "LeaveTypeId": "142!27",  
  "UsesSmallBreakMorning": false,  
  "UsesSmallBreakAfternoon": false,  
  "SmallBreakMorning": 0,  
  "SmallBreakAfternoon": 0  
}  
]  
}
```


3.4.2 [GET](https://{url}/odata/Events('{key}')</h3> </div> <div data-bbox=)

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Events\('172!5480'\)](https://[[your-hostname]].vrijedagen.nl/odata/Events('172!5480'))

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Events/$entity",
  "EventId": "172!5480",
  "Period": {
    "Begin": "2014-11-24T08:30:00+01:00",
    "End": "2014-11-24T17:00:00+01:00",
    "Value": 480
  },
  "Description": "",
  "Balanceld": "149!189",
  "LeaveName": "Normal leave",
  "LeaveTypeld": "142!19",
  "UsesmallBreakMoring": false,
  "UsesmallBreakAfternoon": false,
  "SmallBreakMorning": 0,
  "SmallBreakAfternoon": 0
}
```

3.4.3 [https://{url}/odata/Events\('{key}'\)/Employee](https://{url}/odata/Events('{key}')/Employee)

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Events\('172!5480'\)/Employee](https://[[your-hostname]].vrijedagen.nl/odata/Events('172!5480')/Employee)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Employees/$entity",
  "EmployeeId": "98!185",
  "UserName": "employee1",
  "FirstName": "employee",
  "MiddleName": "",
  "LastName": "1",
  "EmployeeNumber": null,
  "DateOfBirth": "1990-01-01T00:00:00+01:00",
  "Email": "employee1@test-debug.cp",
  "HireDate": "2014-01-01T00:00:00+01:00",
  "DischargeDate": null,
  "AuthorizerId": "98!58",
  "DepartmentId": "70!29",
  "Position": "employee",
  "Roles": "employee",
  "Remarks": "",
  "ShowInCalendar": 0,
  "ShowBalanceIn": "Default",
  "CurrentContractName": "Standaard",
  "CurrentScheduleName": "Default",
  "CurrentPercentage": 100,
  "Region": null,
}
```

```
"UseOnlyRegion": false,  
"RegionId": "",  
"CurrentContractId": "85!18",  
"CurrentScheduleId": "114!9"  
}
```

3.4.4 [https://{url}/odata/Events\('{key}'\)/Balance](https://{url}/odata/Events('{key}')/Balance)

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Events\('172!5480'\)/Balance](https://[[your-hostname]].vrijedagen.nl/odata/Events('172!5480')/Balance)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Balances/$entity",
  "BalanceId": "149!189",
  "Balance": "21d",
  "Category": "Normal leave",
  "Start": "2014-01-01T00:00:00+01:00",
  "End": "2015-01-01T00:00:00+01:00",
  "Closed": false
}
```

3.5 Requests

3.5.1 <https://{url}/odata/Requests>

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Requests](https://[[your-hostname]].vrijedagen.nl/odata/Requests)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Requests",
  "value": [
    {
      "RequestId": "67!478",
      "State": "approved",
      "RequestedOn": "2014-05-22T12:37:48.763+02:00",
      "IsOverTime": false,
    }
  ]
}
```

```

    "AutoApprove": false,
    "Employee": "98!58",
    "Reason": "",
    "Total": 1920
  },
  {
    "RequestId": "67!488",
    "State": "approved",
    "RequestedOn": "2014-05-22T12:38:09.333+02:00",
    "IsOverTime": false,
    "AutoApprove": false,
    "Employee": "98!58",
    "Reason": "",
    "Total": 1920
  }
]

```

POST

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Requests](https://[[your-hostname]].vrijedagen.nl/odata/Requests)

Data:

```

{
  AutoApprove: false,
  Employee: "98!185",
  Events: [
    {
      Balancelid: "149!189",
      Description: "",
      Period:

```

```
{  
    Begin: "2014-11-21T07:30:00.000Z",  
    End: "2014-11-21T16:00:00.000Z",  
    Value: 480  
},  
SmallBreakAfternoon: 0,  
SmallBreakMorning: 0,  
UsesmallBreakAfternoon: false,  
UsesmallBreakMoring: false  
}  
],  
IsOverTime: false,  
Reason: "",  
RequestId: "",  
Total: 480  
}
```

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Requests/$entity",
  "RequestId": "67!5746",
  "State": "being_requested ",
  "RequestedOn": "2014-11-28T14:48:08.4936248+01:00",
  "IsOverTime": false,
  "AutoApprove": false,
  "Employee": "98!185",
  "Reason": "",
  "Total": 480
}
```

3.5.1 [GET](https://{url}/odata/Requests('{key}')</h3></div><div data-bbox=)

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Requests\('67!5746'\)](https://[[your-hostname]].vrijedagen.nl/odata/Requests('67!5746'))

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Requests/$entity",
  "RequestId": "67!5746",
  "State": "being_requested ",
  "RequestedOn": "2014-11-28T14:48:08.4936248+01:00",
  "IsOverTime": false,
  "AutoApprove": false,
  "Employee": "98!185",
  "Reason": "",
  "Total": 480
}
```


3.5.3 `https://{url}/odata/Requests('{key}')/Service.Approve()`

This functionality has not yet been added to the system.

3.5.4 `https://{url}/odata/Requests('{key}')/Service.Reject()`

This functionality has not yet been added to the system.

3.5.5 [https://{url}/odata/Requests\('{key}'\)/Events](https://{url}/odata/Requests('{key}')/Events)

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Requests\('67!5746'\)/Events](https://[[your-hostname]].vrijedagen.nl/odata/Requests('67!5746')/Events)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Events",
  "value": [
    {
      "EventId": "172!5745",
      "Period": {
        "Begin": "2014-11-21T08:30:00+01:00",
        "End": "2014-11-21T17:00:00+01:00",
        "Value": 480
      },
      "Description": "",
      "BalanceId": "149!189",
      "LeaveName": "Normal leave",
      "LeaveTypeId": "142!19",
      "UsesSmallBreakMorning": false,
      "UsesSmallBreakAfternoon": false,
      "SmallBreakMorning": 0,
      "SmallBreakAfternoon": 0
    }
  ]
}
```

3.6 Employees

3.6.1 <https://{url}/odata/Employees>

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Employees](https://[[your-hostname]].vrijedagen.nl/odata/Employees)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Employees",
  "value": [
    {
      "EmployeeId": "98!31",
      "UserName": "admin",
      "FirstName": "ad",
      "MiddleName": "",
      "LastName": "min",
      "EmployeeNumber": null,
      "DateOfBirth": "1966-06-07T00:00:00+02:00",
      "Email": "example@compete.nl",
      "HireDate": "2014-01-01T00:00:00+01:00",
      "DischargeDate": null,
      "AuthorizerId": "98!31",
      "DepartmentId": "70!29",
      "Position": "",
      "Roles": "employee, authorizer, administrator, systemAdministrator",
      "Remarks": "",
      "ShowInCalendar": 1,
      "ShowBalanceIn": "Default",
      "CurrentContractName": "Standaard",
      "CurrentScheduleName": "Default",
      "CurrentPercentage": 100,
    }
  ]
}
```

```
"Region": "Schiedam",  
"UseOnlyRegion": false,  
"RegionId": "104!4012",  
"CurrentContractId": "85!18",  
"CurrentScheduleId": "114!9"  
} etc.  
]  
}
```

3.6.2 [https://{url}/odata/Employees\('{key}'\)](https://{url}/odata/Employees('{key}'))

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Employees\('98!185'\)](https://[[your-hostname]].vrijedagen.nl/odata/Employees('98!185'))

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Employees/$entity",
  "EmployeeId": "98!185",
  "UserName": "employee1",
  "FirstName": "employee",
  "MiddleName": "",
  "LastName": "1",
  "EmployeeNumber": null,
  "DateOfBirth": "1990-01-01T00:00:00+01:00",
  "Email": "employee1@test-debug.cp",
  "HireDate": "2014-01-01T00:00:00+01:00",
  "DischargeDate": null,
  "AuthorizerId": "98!58",
  "DepartmentId": "70!29",
  "Position": "employee",
  "Roles": "employee",
  "Remarks": "",
  "ShowInCalendar": 0,
  "ShowBalanceIn": "Default",
  "CurrentContractName": "Standard",
  "CurrentScheduleName": "Default",
  "CurrentPercentage": 100,
}
```

```
"Region": null,  
"UseOnlyRegion": false,  
"RegionId": "",  
"CurrentContractId": "85!18",  
"CurrentScheduleId": "114!9"  
}
```

3.6.3 [https://{url}/odata/Employees\('{key}'\)/Authorizer](https://{url}/odata/Employees('{key}')/Authorizer)

GET

Function

Call: [https://\[your-hostname\].vrijedagen.nl/odata/Employees\('98!185'\)/Authorizer](https://[your-hostname].vrijedagen.nl/odata/Employees('98!185')/Authorizer)

Response:

```
{
  "@odata.context": "https://[your-hostname].vrijedagen.nl/odata/$metadata#Authorizers/$entity",
  "AuthorizerId": "98!58",
  "Name": "1, manager"
}
```

3.6.4 [https://{url}/odata/Employees\('{key}'\)/Department](https://{url}/odata/Employees('{key}')/Department)

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Employees\('98!185'\)/Department](https://[[your-hostname]].vrijedagen.nl/odata/Employees('98!185')/Department)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Departments/$entity",
  "DepartmentId": "70!29",
  "Name": "Default",
  "AdministrationId": "128!4"
}
```


3.6.5 [https://{url}/odata/Employees\('{key}'\)/ContractChanges](https://{url}/odata/Employees('{key}')/ContractChanges)

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Employees\('98!185'\)/ContractChanges](https://[[your-hostname]].vrijedagen.nl/odata/Employees('98!185')/ContractChanges)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#ContractChanges",
  "value": [
    {
      "ContractChangeld": "81!187",
      "ChangedOn": "2014-01-01T00:00:00+01:00",
      "Description": "Initial_Contract_Change",
      "Employeeid": "98!185",
      "Employee": "1, employee",
      "ContractId": "85!18",
      "Contract": "Standard",
      "ScheduleId": "114!9",
      "Schedule": "Default",
      "Percentage": 100
    }
  ]
}
```

3.6.6 [https://{url}/odata/Employees\('{key}'\)/Weeks\('{relatedKey}'\)](https://{url}/odata/Employees('{key}')/Weeks('{relatedKey}'))

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Employees\('98!185'\)/Weeks\('2014-46'\)](https://[[your-hostname]].vrijedagen.nl/odata/Employees('98!185')/Weeks('2014-46'))

Response:

```
{
  "@odata.context":
    "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Weeks/LeaveDays.2012.Web.Controllers.Api.OData.Models.EventOdm",
  "value": [
    {
      "@odata.type": "#LeaveDays.2012.Web.Controllers.Api.OData.Models.EventOdm",
      "EventId": "172!4587",
      "Period": {
        "Begin": "2014-11-14T08:30:00+01:00",
        "End": "2014-11-14T17:00:00+01:00",
        "Value": 480
      },
      "Description": "",
      "BalanceId": "149!189",
      "LeaveName": "Normal leave",
      "LeaveTypeId": "142!19",
      "UsesSmallBreakMoring": false,
      "UsesSmallBreakAfternoon": false,
      "SmallBreakMorning": 0,
      "SmallBreakAfternoon": 0
    }
  ]
}
```

```
{  
  "@odata.type": "#LeaveDays_2012.Web.Controllers.Api.OData.Models.EventOdm",  
  "EventId": "172!5299",  
  "Period": {  
    "Begin": "2014-11-13T08:30:00+01:00",  
    "End": "2014-11-13T17:00:00+01:00",  
    "Value": 480  
  },  
  "Description": "",  
  "BalanceId": "149!189",  
  "LeaveName": "Normal leave",  
  "LeaveTypeId": "142!19",  
  "UsesSmallBreakMorning": false,  
  "UsesSmallBreakAfternoon": false,  
  "SmallBreakMorning": 0,  
  "SmallBreakAfternoon": 0  
}, Etc.  
]  
}
```

3.7 Contract changes

3.7.1 <https://{url}/odata/ContractChanges>

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/ContractChanges](https://[[your-hostname]].vrijedagen.nl/odata/ContractChanges)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#ContractChanges",
  "value": [
    {
      "ContractChangeld": "81!32",
      "ChangedOn": "2014-01-01T00:00:00+01:00",
      "Description": "Initial_Contract_Change",
      "Employeeeld": "98!31",
      "Employee": "min, ad",
      "ContractId": "85!18",
      "Contract": "Standard",
      "ScheduleId": "114!9",
      "Schedule": "Default",
      "Percentage": 100
    }, Etc.
  ]
}
```

3.7.2 [https://{url}/odata/ContractChanges\('{key}'\)](https://{url}/odata/ContractChanges('{key}'))

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/ContractChanges\('81!32'\)](https://[[your-hostname]].vrijedagen.nl/odata/ContractChanges('81!32'))

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#ContractChanges/$entity",
  "ContractChangeId": "81!32",
  "ChangedOn": "2014-01-01T00:00:00+01:00",
  "Description": "Initial_Contract_Change",
  "EmployeeId": "98!31",
  "Employee": "min, ad",
  "ContractId": "85!18",
  "Contract": "Standard",
  "ScheduleId": "114!9",
  "Schedule": "Default",
  "Percentage": 100
}
```

3.8 Owners

3.8.1 <https://{url}/odata/Owners>

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Owners](https://[[your-hostname]].vrijedagen.nl/odata/Owners)

Response:

```
{
  "@odata.context": "https://\[\[your-hostname\]\].vrijedagen.nl/odata/\$metadata#Owners",
  "value": [
    {
      "OwnerId": "98!31",
      "Name": "min, ad",
      "PendingRequestCount": 0
    }, Etc.
  ]
}
```

3.8.2 [https://{url}/odata/Owners\('{key}'\)](https://{url}/odata/Owners('{key}'))

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Owners\('98!185'\)](https://[[your-hostname]].vrijedagen.nl/odata/Owners('98!185'))

Response:

```
{  
  "@odata.context": "https://\[\[your-hostname\]\].vrijedagen.nl/odata/\$metadata#Owners/\$entity",  
  "OwnerId": "98!185",  
  "Name": "1, employee",  
  "PendingRequestCount": 5  
}
```

3.8.3 [https://{url}/odata/Owners\('{key}'\)/Balances](https://{url}/odata/Owners('{key}')/Balances)

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Owners\('98!185'\)/Balances](https://[[your-hostname]].vrijedagen.nl/odata/Owners('98!185')/Balances)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Balances",
  "value": [
    {
      "Balancelid": "149!189",
      "Balance": "19d",
      "Category": "Normal leave",
      "Start": "2014-01-01T00:00:00+01:00",
      "End": "2015-01-01T00:00:00+01:00",
      "Closed": false
    }, Etc.
  ]
}
```


3.8.4 [https://{url}/odata/Owners\('{key}'\)/PendingRequests](https://{url}/odata/Owners('{key}')/PendingRequests)

GET

Function

Call: [https://\[your-hostname\].vrijedagen.nl/odata/Owners\('98!185'\)/PendingRequests](https://[your-hostname].vrijedagen.nl/odata/Owners('98!185')/PendingRequests)

Response:

```
{
  "@odata.context": "https://[your-hostname].vrijedagen.nl/odata/$metadata#Requests",
  "value": [
    {
      "RequestId": "141!5027",
      "State": "being_requested",
      "RequestedOn": "2014-11-11T11:41:00.907+01:00",
      "IsOverTime": true,
      "AutoApprove": false,
      "Employee": "98!185",
      "Reason": "",
      "Total": 120
    }, Etc.
  ]
}
```

3.9 Users

3.9.1 <https://{url}/odata/Users>

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Users](https://[[your-hostname]].vrijedagen.nl/odata/Users)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Users",
  "value": [
    {
      "UserId": "98!31",
      "Name": "min, ad",
      "UserName": "admin"
    },
    {
      "UserId": "98!58",
      "Name": "1, manager",
      "UserName": "manager1"
    },
    }, Etc.
  ]
}
```

3.9.2 [https://{url}/odata/Users\('{key}'\)](https://{url}/odata/Users('{key}'))

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/Users\('98!31'\)](https://[[your-hostname]].vrijedagen.nl/odata/Users('98!31'))

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Users/$entity",
  "UserId": "98!31",
  "Name": "min, ad",
  "UserName": "admin"
}
```

3.9.3 [https://{url}/odata/Users\('{key}'\)/Roles](https://{url}/odata/Users('{key}')/Roles)

GET

Function

Call: [https://\[your-hostname\].vrijedagen.nl/odata/Users\('98!31'\)/Roles](https://[your-hostname].vrijedagen.nl/odata/Users('98!31')/Roles)

Response:

```
{
  "@odata.context": "https://[your-hostname].vrijedagen.nl/odata/$metadata#Roles",
  "value": [
    {
      "RoleId": "113!0",
      "Name": "employee"
    },
    {
      "RoleId": "113!1",
      "Name": "manager"
    },
    {
      "RoleId": "113!2",
      "Name": "administration"
    },
    {
      "RoleId": "113!3",
      "Name": "systeem management"
    }
  ]
}
```

3.10 Types of leave

3.10.1 <https://{url}/odata/LeaveTypes>

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/LeaveTypes](https://[[your-hostname]].vrijedagen.nl/odata/LeaveTypes)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#LeaveTypes",
  "value": [
    {
      "LeaveTypeId": "142!19",
      "AdministrationId": "128!4",
      "Name": "Normal leave",
      "IsOverTime": false
    },
    {
      "LeaveTypeId": "142!21",
      "AdministrationId": "128!4",
      "Name": "Special leave",
      "IsOverTime": false
    },
    }, Etc.
  ]
}
```

3.10.2 [https://{url}/odata/LeaveTypes\('{key}'\)](https://{url}/odata/LeaveTypes('{key}'))

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/LeaveTypes\('142!19'\)](https://[[your-hostname]].vrijedagen.nl/odata/LeaveTypes('142!19'))

Response:

```
{
  "@odata.context": "https://\[\[your-hostname\]\].vrijedagen.nl/odata/\$metadata#LeaveTypes/\$entity",
  "LeaveTypeId": "142!19",
  "AdministrationId": "128!4",
  "Name": "Normal leave",
  "IsOverTime": false
}
```

3.11 Active users

3.11.1 <https://{url}/odata/ActiveAuthorizer>

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/ActiveAuthorizer](https://[[your-hostname]].vrijedagen.nl/odata/ActiveAuthorizer)

Response:

```
{  
  "@odata.context": "https://\[\[your-hostname\]\].vrijedagen.nl/odata/\$metadata#ActiveAuthorizer",  
  "AuthorizerId": "98!58",  
  "Name": "1, manager"  
}
```

3.11.2 <https://{url}/odata/ActiveAuththorizer/RequestsToBeAssessed>

GET

Function

Call: [https://\[your-hostname\].vrijedagen.nl/odata/ActiveAuthorizer/RequestsToBeAssessed](https://[your-hostname].vrijedagen.nl/odata/ActiveAuthorizer/RequestsToBeAssessed)

Response:

```
{
  "@odata.context": "https://\[your-hostname\].vrijedagen.nl/odata/\$metadata#Requests",
  "value": [
    {
      "RequestId": "141!5027",
      "State": "being_requested",
      "RequestedOn": "2014-11-11T11:41:00.907+01:00",
      "IsOverTime": true,
      "AutoApprove": false,
      "Employee": "98!185",
      "Reason": "",
      "Total": 120
    }, Etc.
  ]
}
```


3.11.3 <https://{url}/odata/ActiveOwner>

GET

Function

Call: [https://\[your-hostname\].vrijedagen.nl/odata/ActiveOwner](https://[your-hostname].vrijedagen.nl/odata/ActiveOwner)

Response:

```
{
  "@odata.context": "https://\[your-hostname\].vrijedagen.nl/odata/\$metadata#ActiveOwner",
  "OwnerId": "98!185",
  "Name": "1, employee",
  "PendingRequestCount": 5
}
```

3.11.4 <https://{url}/odata/ActiveOwner/PendingRequests>

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/ActiveOwner/Balances](https://[[your-hostname]].vrijedagen.nl/odata/ActiveOwner/Balances)

Response:

```
{
  "@odata.context": "https://\[\[your-hostname\]\].vrijedagen.nl/odata/\$metadata#Balances",
  "value": [
    {
      "BalanceId": "149!189",
      "Balance": "19d",
      "Category": "Normal leave",
      "Start": "2014-01-01T00:00:00+01:00",
      "End": "2015-01-01T00:00:00+01:00",
      "Closed": false
    },Etc.
  ]
}
```

3.11.5 <https://{url}/odata/ActiveOwner/Balances>

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/ActiveOwner/PendingRequests](https://[[your-hostname]].vrijedagen.nl/odata/ActiveOwner/PendingRequests)

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Requests",
  "value": [
    {
      "RequestId": "141!5027",
      "State": "being_requested",
      "RequestedOn": "2014-11-11T11:41:00.907+01:00",
      "IsOverTime": true,
      "AutoApprove": false,
      "Employee": "98!185",
      "Reason": "",
      "Total": 120
    }, Etc.
  ]
}
```

3.11.6 [https://{url}/odata/ActiveOwner/EventsInMonth\('{key}'\)](https://{url}/odata/ActiveOwner/EventsInMonth('{key}'))

GET

Function

Call: [https://\[\[your-hostname\]\].vrijedagen.nl/odata/ActiveOwner/EventsInMonth\('2014-11'\)](https://[[your-hostname]].vrijedagen.nl/odata/ActiveOwner/EventsInMonth('2014-11'))

Response:

```
{
  "@odata.context": "https://[[your-hostname]].vrijedagen.nl/odata/$metadata#Events",
  "value": [
    {
      "EventId": "172!4587",
      "Period": {
        "Begin": "2014-11-14T08:30:00+01:00",
        "End": "2014-11-14T17:00:00+01:00",
        "Value": 480
      },
      "Description": "",
      "BalancelId": "149!189",
      "LeaveName": "Normal leave",
      "LeaveTypeId": "142!19",
      "UsesmallBreakMoring": false,
      "UsesmallBreakAfternoon": false,
      "SmallBreakMorning": 0,
      "SmallBreakAfternoon": 0
    }, Etc.
  ]
}
```


Chapter 4: LeaveDays / VrijeDagen.nl REST API

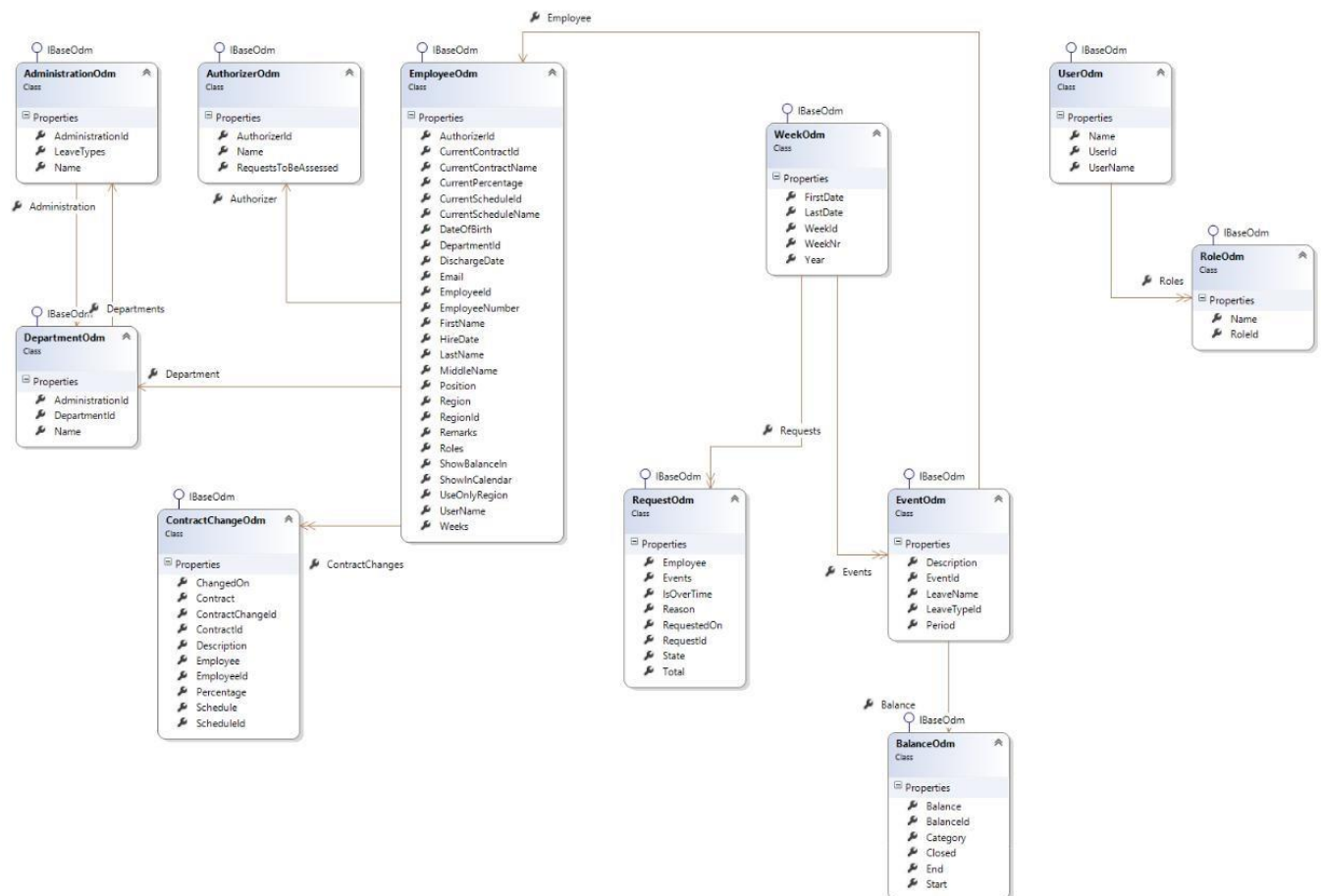
Introduction

This document describes the functions and calls that are currently available in the LeaveDays REST API and their protocols. This is a short summary of the full implementation and the ongoing developments. During implementation, it is possible for changes to be made without prior notification. After a release for production, the interface will be frozen and version control will come into effect.

The purpose of this chapter is to start developing a client implementation which is linked to the LeaveDays REST API, which allows data to be requested and sources to be updated.

4.1 Resources

The available resources within the current system are shown below.



The Odm-postfix will be omitted in the rest of this document. Not all resources are shown in this model.

4.2 General functionality

It is possible to request the model with the majority of the Odata v4 protocol.

Create an HTTP GET-request with the following URL to retrieve a list of sources in JSON:

[https://\[\[your-hostname\]\].vrijedagen.nl/odata/<resource_name_plural>](https://[[your-hostname]].vrijedagen.nl/odata/<resource_name_plural>)

For example: to retrieve a list of request sources, use the following syntax:

GET /odata/requests HTTP/1.1

Host: <hostname>

Authorization: Basic a3dhcm5hYXI6d2Vsa29t

Content-Type: application/json

Cache-Control: no-cache

Add the correct headers before https-transport

The authorization header needs to be created with basic authentication and a combination of username and password for the website in question.

To retrieve a single instance of a resource, add an ID at the end of the get request URL:

GET /odata/requests('<id>')

The Id's will usually be found by searching the list of sources using the Id field.

It is possible to improve the execution by adding queries using the OData format.

GET /odata/requests('<id>')\$expand=Events

or

GET /odata/requests\$filter=startswith(Employee, 'SomeName')

See the OData format (v4) documentation for a more detailed description of the possibilities. Please note that not all specifications are implemented here.

Take into account that the names of the source list are lower case, and that the fieldnames, used in the second part of the request, are CamelCased.

An update of a source is executed using a POST request:

POST /odata/requests('67!390162')/RequestService.Approve HTTP/1.1

Host: localhost:49199

Authorization: Basic aXNjaHV1cnM6d2Vsa29t

Content-Type: application/json

Cache-Control: no-cache

```
{ "Comment":"","ManagerComment":"" }
```

This will perform the approve function to the request with the Id in question. Please note that the exact headers will differ from this example.

This query will retrieve all events for an employee in the specified week:

[http://localhost:49199/odata/employees\('92!1997'\)/Weeks\('2014-30'\)](http://localhost:49199/odata/employees('92!1997')/Weeks('2014-30'))

We also support some singleton resources, like:

- activeowner
- activeauthorizer

These singletons support several queries, like PendingRequest and WeekEvents.

4.3 Description of Resources

4.3.1 User

Identifies the users in the system.

4.3.2 Role

The role of the user in the system. The De rol van de gebruiker in het systeem. The following are valid values: Employee, Authorizer, Administrator and SystemAdminstrator.

4.3.3 Owner

Every Event has one owner. In the current implementation, the Owner ID is the same as the Employee ID, and thus one can be used to retrieve the other.

4.3.4 Employee

The employee can request leave or overtime based on their schedule and available balance.

4.3.5 Authorizer

The authorizer authorizes leave requests made by employees in the system. Every employee is linked to at least one Authorizer

4.3.6 Request

The request describes the leave or overtime request. It contains one or more Events. The Events are associated with the balance of a certain type of leave.

4.3.7 Event

The Event describes the requested leave or overtime period. The value of the event is the true number of minutes that will be added or subtracted from the balance. This number may differ from the time span between the start and the end period, due to lunch breaks or overtime percentages.

4.3.8 Balance

The balance contains all additions and reductions for a certain type of leave. It shows the true balance for all authorized and current leave and overtime requests.

4.3.9 ContractChange

Every employee, at the start of their contract, must have at least one contract change. A contract change contains information about the part-time percentage, schedule, and contract type.

4.3.10 Department

The department to which the employee is assigned.

4.3.11 Administration

The administration in which the employee is employed.

4.3.12 Week

This is a container for requests and events to be able to query them easily. The Id of the week is Year-Weeknr, for example: 2014-25.

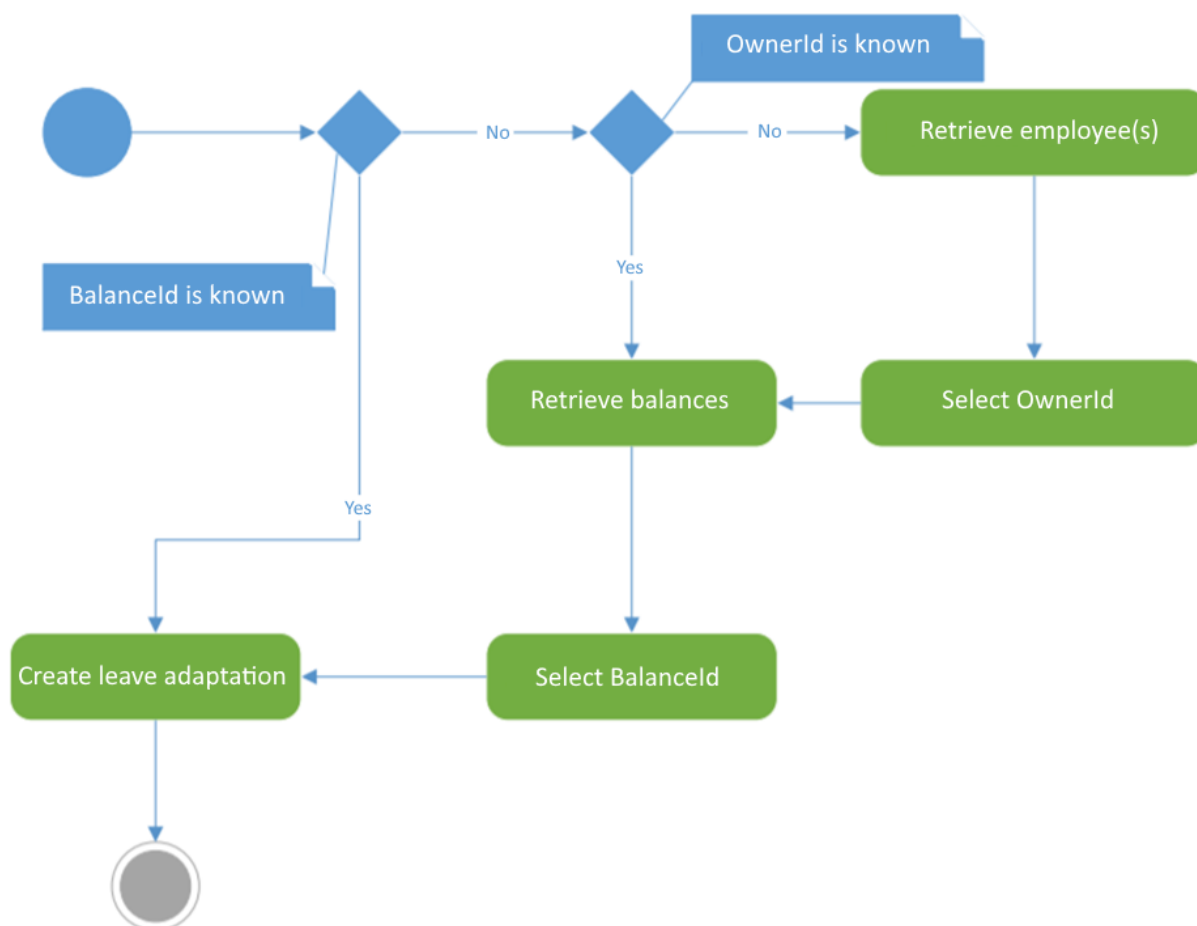
Send an email to support@leavedays.com if you need more information, or if you get an unexpected result.

Chapter 5: Adaptations

Introduction

This chapter outlines which calls are necessary to create different adaptations. A clear description of the process will follow.

5.1 Create adaptation



Description of the process

In this example, the employee will be retrieved using the external number. By creating a filter based on 'ExternalNumber', it is possible to retrieve a specific employee.

API Call

This call retrieves the Owner with the External Number 001.

Request

GET [https://voorbeeld.vrijedagen.nl/odata/Owners?\\$filter=ExternalNumber eq '001'](https://voorbeeld.vrijedagen.nl/odata/Owners?$filter=ExternalNumber eq '001')

Response

```
{
  "@odata.context" : "https://{URL}/odata/$metadata#Owners",
  "value" : [
    {
      "OwnerId" : "125!125",
      "Name" : "LastName, FirstName",
      "PendingRequestCount" : 0,
      "ExternalNumber" : "001"
    }
  ]
}
```

The response contains the OwnerId of the employee, which can be used to retrieve the balances. By creating a filter on 'Closed', it is possible to only retrieve the active balances.

API Call

This call retrieves the Owner with the External Number 001, whereby only active balances are included.

Request

GET [https://voorbeeld.vrijedagen.nl/odata/Owners\('125!125'\)/MyBalances?\\$filter=Closed_eq_false](https://voorbeeld.vrijedagen.nl/odata/Owners('125!125')/MyBalances?$filter=Closed_eq_false)

Response

```
{
  "@odata.context" : "https://{URL}/odata/$metadata#Owners",
  "value" : [
    {
      "Balanceld" : "128!125",
      "Balance" : "27d (216:00)",
      "BalancelnMinutes" : 12960,
      "Category" : "Normal leave",
      "Start" : "2016-01-01T00:00:00+01:00",
      "End" : "2017-01-01T00:00:00+01:00",
      "Closed" : false,
      "IsOvertime" : false,
      "Color" : "Green",
      "AllowBalance" : true,
      "OriginallnMinutes" : 12960,
      "TakenlnMinutes" : 0,
      "Statutory" : 9600,
      "ExceedingStatutory" : 3360,
      "IsSickLeave" : false
    }
  ]
}
```

Now, the Balancelid of a Balance can be used to create a leave adaptation. The request text for making addition, reduction and payment adaptations is the same. The example below is an Addition adaptation.

API Call

POST [https://{URL}/odata/Mutations\(""\)/Service.AdditionAdaption](https://{URL}/odata/Mutations()

Request

```
{
  Total           : 480,
  SubmittedOn    : "2016-09-01T08:30:00.000+02:00",
  Reason         : "reason",
  Balancelid     : "128!125",
}
```

Response

```

{
  "@odata.context" : "https://{URL}/odata/\$metadata#Mutations/\$entity",
  "MutationId" : "123!123",
  "Type" : "administrative adaptation",
  "BalanceId" : "128!125",
  "EmployeeId" : "125!125",
  "Total" : 480,
  "SubmittedOn" : "2016-09-01T16:00:00.000",
  "Reason" : "reason",
  "Active" : true,
  "IsAddition" : true,
  "PayOut" : false
}

```

The addition adaptation has now been added to the system.

5.2 Retrieve employees

Retrieves all employees registered in the system.

API-call

GET: <https://{URL}/odata/Owners>

Response

```
{
  "@odata.context" : "https://{URL}/odata/$metadata#Owners",
  "value" : [
    {
      "OwnerId" : "125!125",
      "Name" : "LastName, FirstName",
      "PendingRequestCount" : 0,
      "ExternalNumber" : "001"
    },
    {
      "OwnerId" : "125!126",
      "Name" : "LastName, FirstName",
      "PendingRequestCount" : 0,
      "ExternalNumber" : "002"
    }
  ]
}
```

5.3 Retrieve employee balances

Retrieves all employee balances. By using OData filters, it is possible to retrieve only the active balances.

API-call

GET: [https://{URL}/odata/Owners\('{OWNERID}'\)/MyBalances](https://{URL}/odata/Owners('{OWNERID}')/MyBalances)

Response

```
{
  "@odata.context" : "https://{URL}/odata/$metadata#Owners",
  "value" : [
    {
      "BalanceId" : "128!124",
      "Balance" : "-",
      "BalanceInMinutes" : 0,
      "Category" : "Normal leave",
      "Start" : "2015-01-01T00:00:00+01:00",
      "End" : "2016-01-01T00:00:00+01:00",
      "Closed" : true,
      "IsOvertime" : false,
      "Color" : "Green",
      "AllowBalance" : true,
      "OriginalInMinutes" : 12960,
      "TakenInMinutes" : 12960,
      "Statutory" : 0,
      "ExceedingStatutory" : 0,
      "IsSickLeave" : false
    }
  ]
}
```

```

{
  "BalanceId"      : "128!125",
  "Balance"       : "27d (216:00)",
  "BalanceInMinutes" : 12960,
  "Category"      : "Normal leave",
  "Start"         : "2016-01-01T00:00:00+01:00",
  "End"           : "2017-01-01T00:00:00+01:00",
  "Closed"        : false,
  "IsOvertime"    : false,
  "Color"         : "Green",
  "AllowBalance"  : true,
  "OriginalInMinutes" : 12960,
  "TakenInMinutes" : 0,
  "Statutory"     : 9600,
  "ExceedingStatutory" : 3360,
  "IsSickLeave"    : false
}
]
}

```

5.4 Retrieve adaptations

Retrieves all adaptations registered in the system. By using OData filters, it is possible to retrieve only the adaptations of a certain employee or balance.

API-call

GET: <https://{URL}/odata/Mutations>

Response

```
{
  "@odata.context" : "https://{URL}/odata/$metadata#Mutations",
  "value" : [
    {
      "MutationId" : "123!123",
      "Type" : "administrative adaptation",
      "BalanceId" : "124!124",
      "EmployeeId" : "125!125",
      "Total" : 480,
      "SubmittedOn" : "2016-09-01T16:00:00.000",
      "Reason" : "reason",
      "Active" : true,
      "IsAddition" : false,
      "PayOut" : false
    }
  ],
}
```

```

{
  "MutationId" : "123!123",
  "Type"       : "administrative
                 adaptation",
  "Balanceld"  : "124!124",
  "EmployeeId" : "125!125",
  "Total"      : 480,
  "SubmittedOn" : "2016-09-
                 02T15:00:00.000",
  "Reason"     : "reason",
  "Active"     : true,
  "IsAddition" : true,
  "PayOut"     : false

```

```

},

```

```

{
  "MutationId" : "123!123",
  "Type"       : "administrative
                 adaptation",
  "Balanceld"  : "124!124",
  "EmployeeId" : "125!125",
  "Total"      : 60,
  "SubmittedOn" : "2016-09-
                 01T16:00:00.000",
  "Reason"     : "reason",
  "Active"     : true,
  "IsAddition" : false,
  "PayOut"     : true

```

```

}

```

```

]

```

```

}

```

5.5 Addition adaptation

An addition adaptation causes an increase in a balance.

API-call

POST: [https://{URL}/odata/Mutations\(\)/Service.AdditionAdaption](https://{URL}/odata/Mutations()/Service.AdditionAdaption)

Request

```
{
```

```
Total           : 480,
```

```
SubmittedOn      : "2016-09-01T08:30:00.000",
```

```
Reason           : "reason",
```

```
BalanceId        : "124!124",
```

```
}
```

Response

```

{
  :
  "@odata.context" : "https://{URL}/odata/$metadata#Mutations/$entity",
  "MutationId" : "123!123",
  "Type" : "administrative adaptation",
  "BalanceId" : "124!124",
  "EmployeeId" : "125!125",
  "Total" : 480,
  "SubmittedOn" : "2016-09-01T08:30:00.000",
  "Reason" : "reason",
  "Active" : true,
  "IsAddition" : true,
  "PayOut" : false
}

```

5.6 Deduction adaptation

A deduction adaptation is deducted from the statutory balance until this balance is used up. Once that happens, it is deducted from the balance exceeding the statutory minimum.

API-call

POST: [https://{URL}/odata/Mutations\(""\)/Service.DeductionAdaption](https://{URL}/odata/Mutations()

Request

```
{
  Total           : 480,
  SubmittedOn    : "2016-09-01T08:30:00.000",
  Reason         : "reason",
  Balancelid     : "124!124",
}
```


Response

```

{
  :
  "@odata.context" : "https://{URL}/odata/\$metadata#Mutations/\$entity",
  "MutationId" : "123!123",
  "Type" : "administrative adaptation",
  "BalanceId" : "124!124",
  "EmployeeId" : "125!125",
  "Total" : 480,
  "SubmittedOn" : "2016-09-01T08:30:00.000",
  "Reason" : "reason",
  "Active" : true,
  "IsAddition" : false,
  "PayOut" : false
}

```

5.7 Payment adaptation

A payment adaptation is deducted from the leave exceeding the statutory minimum. The statutory leave cannot be cashed out. When creating a payment adaptation, it is important to take into account the maximum amount of leave that can be sold.

API-call

POST: [https://{URL}/odata/Mutations\(\)/Service.PaymentAdaption](https://{URL}/odata/Mutations()/Service.PaymentAdaption)

Request

```
{
  Total           : 480,
  SubmittedOn    : "2016-09-01T08:30:00.000",
  Reason         : "reason",
  Balancelid     : "124!124",
}
```

Response

```

{
  :
  "@odata.context" : "https://{URL}/odata/$metadata#Mutations/$entity",
  "MutationId" : "123!123",
  "Type" : "administrative adaptation",
  "BalanceId" : "124!124",
  "EmployeeId" : "125!125",
  "Total" : 480,
  "SubmittedOn" : "2016-09-01T08:30:00.000",
  "Reason" : "reason",
  "Active" : true,
  "IsAddition" : false,
  "PayOut" : true
}

```

5.8 Delete adaptation

Deleting an adaptation will remove an adaptation from the adaptations in the system. This causes the addition or deduction in this adaptation to no longer be taken into account in the calculation of the current balance.

API-call

POST: [https://{URL}/odata/Mutations\('{MUTATIONID}'\)/Service.Delete](https://{URL}/odata/Mutations('{MUTATIONID}')/Service.Delete)

Request

```
{  
}
```

Response

HTTP Result 200 OK

