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Abstract

User guide describing how to use Cedar Rose EIDV API

EIDV API

User Documentation

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# Introduction

## Restful Web Services

Cedar Rose implements RESTful web services over HTTPS, with a JSON response, and thus, we can integrate with any web-based solution.

## General RESTful Response Guide

* HTTP Code 200: Success
* HTTP Code 400: Business Error
* HTTP Code 500: Technical Error

JSON property names are case sensitive. Therefore, if the web service expects "Name", then "name" wouldn't be valid. See example:

{Name: "cedar rose"} // valid

{name: "cedar rose"} // not valid

JSON property string values are NOT case sensitive. See example:

{Name:"cedar rose"} is same as {Name: "Cedar Rose"}

# Responses & errors

We use standard HTTP status codes to indicate the success or failure of a request to our API.

Successful requests to our API will have a 200 HTTP status code; the “status” and “content” key-value pairs will detail the status message and the content of the response.

{ "status": "success", "content": "... API response goes here ..." }

Unsuccessful requests to our API will have a non-200 HTTP status code and will contain "code", "message" and "status" fields. The "message" field will contain any further information about the unsuccessful request.

{ "code": 500, "message": "Internal Server Error", "status": "failure" }

Note that the message may have more details about the error.

# Authentication

For authentication, a username and password are required; if the client hasn’t been provided with one, please contact Cedar Rose.

During the login request, and in addition to the username and password, the request body should contain “grant\_type=password”.

After a successful login, the system will respond with an “access\_token” which should be used in all other requests henceforth in the authorization header as Bearer token authentication.

Login Endpoint: https://api.cedar-rose.com/api/User/Login

**Login Request**

* Method: POST
* Header: Content-Type: application/x-www-form-urlencoded
* Request Body (example):
* grant\_type=password
* &username=email1@gmail.com
* &password=P@ssword123

**Login Response (example)**

* .expires: Mon, 15 Jun 22:00
* .issued: Mon, 15 Jun 13:00
* access\_token: BfZPnuyPeZn8e-I…
* token\_type: bearer
* userName: email@email.com

# API Endpoints

The root endpoint of Cedar Rose API is <https://api.cedar-rose.com/api/>. The current list of available API endpoints on CR EIDV API is shown below.

|  |  |
| --- | --- |
| **ENDPOINT** | **DESCRIPTION** |
| POST /User/Login | Authentication |
|  |  |
| POST /EIDV/fieldvalidation | Retrieve Recommended, Required and Optional Fields based on “Mode Selection” and “CountryCode” and “Source”. |
| POST /EIDV/EIDVIdentifySearch | Create Identity Verification search |
| POST /Person/FlexibleEIDV | Note: different required arguments between MENA and Romania. |
| GET /common/countries | Retrieves country IDs |
| GET /common/towns | Retrieves towns given country, region and district |

# Field Validation

## POST /EIDV/fieldvalidation

Used to retrieve Recommended, Required and Optional Fields based on “Mode Selection” and “CountryCode” and “Source”.

Mode Selection

* Cascade=1: Cascade Mode
* Cascade=0: Point Source Mode

### Header

* Content-Type: application/json

### JSON Request Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| cascade (required) | Integer | Mode selection |
| countryCode | String | Country Code |
| source | String | Data source |

### JSON Request sample

 

### JSON Response sample

 

# EIDV Search

## POST /EIDV/EIDVIdentifySearch

Search is performed only when recommended fields are provided.

“Source” is not applicable for Cascade Mode(cascade=1)

 Mode Selection

* Cascade=1: Cascade Mode
* Cascade=0: Point Source Mode

 Cascade Types: There are two available Cascade Types:

* Cascadetype=1: 1x1 Identity Verification
* Cascadetype=2: 2x2 Identity Verification

### Header

* Content-Type: application/json

### JSON Request sample

  

### JSON Response sample

 

# MENA EIDV Search

## POST /Person/FlexibleEIDV

* Authentication required
* All Request Fields are optional except Country.
* The field/s included in the client’s request and is/are specified as “Primary” = true, this or these fields will be used to search for the person through Cedar Rose database.
* If the person is found, the field/s included in the client’s request and are or is specified as "Primary"=false, this or these fields will be compared to correspondent fields of the found person in the Cedar Rose database and an evaluation will be included in the response.
* "Like" = true can be added to the request body to check if part of the object exists, if not added it will be false by default. “Like” does not apply to NationalId or BirthDate.

### Header

* Content-Type: application/json
* Authorization: Bearer {TOKEN\_FROM\_LOGIN}

### JSON Request Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| FirstName | String |  |
| LastName | String |  |
| MiddleName | String |  |
| MiddleName2 | String |  |
| MiddleName3 | String |  |
| MiddleName4 | String |  |
| NationalId | String |  |
| BirthDate | String | Format: Year-Month-Day |
| CountryId (required) | Integer |  |

### JSON Response Parameters

The web service will return 1 record having the best score, containing a list of all fields (in addition to the record score), and each field has the below format:

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| Name | String |  |
| Evaluation | String |  |

The Evaluation Options are Matching, Not Matching, Not Available, Not Received.

The following 2 options work for primary and non-primary fields: Matching, Not Received.

Not Matching: is only used for non-primary fields

In case the record was found according to primary fields, but a certain non-primary field was empty in our database, the field will return “Not Available” in the response.

### JSON Request sample

 

### JSON Response sample

 

# Romania EIDV Search

## POST /Person/FlexibleEIDV

* Authentication required
* All Request Fields are optional.
* The field/s included in the client’s request and is/are specified as “Primary” = true, this or these fields will be used to search for the person through Cedar Rose database.
* If the person is found, the field/s included in the client’s request and are or is specified as "Primary"=false, this or these fields will be compared to correspondent fields of the found person in the Cedar Rose database and an evaluation will be included in the response.

### Header

* Content-Type: application/json
* Authorization: Bearer {TOKEN\_FROM\_LOGIN}

### JSON Request Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| NationalId | String | Person unique Id (CNP/National ID) |
| Forename | String | Person first name |
| Surname | String | Person last name |
| DOB | String | Person date of birth (date format: yyyy-mm-dd) |
| Phone | String | Person phone number |

### JSON Request/Response sample

 

# Supporting Functions

## Countries - GET /common/countries

### Header

* Content-Type: application/json
* Authorization: Bearer {TOKEN\_FROM\_LOGIN}

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| ID | Integer | Country identifier |
| Country | String | Country name |

### JSON Response sample



## Civil Register Towns - GET /common/towns

### Header

* Authorization: Bearer {TOKEN\_FROM\_LOGIN}

### Request Parameters

* Append parameters to URL: idCountry, idCountryRegion, idDistrict
* Example: …/api/common/towns?idCountry=49&idCountryRegion=1&idDistrict=1

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| ID | Integer | Town identifier |
| Town | String | Town name |

### JSON Response sample

