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Abstract

User guide describing how to use Cedar Rose Orders API

Orders 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"}

# Advantages

## Flexible "Search Parameters"

* Company Name: English, Arabic
* Address Details: Country, Region, District, Town, Area, Street, Building, P.O. Box, Postal Code
* Register Details: Country, Organization, Register, Number
* Name of a Shareholder or a Director (mostly CEO)

## Search Values

* When you are doubting the spelling of certain parameters, you can search for "Similar values".
* For each parameter you include in the request, you can specify whether the search value is exact or partial.

## Response Data

* Able to include almost any detail in the response.
* The response details can be the same as search parameters or totally different.

# 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

# 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.

# API Endpoints

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

|  |  |  |
| --- | --- | --- |
| **Method** | **ENDPOINT** | **DESCRIPTION** |
| POST | /User/Login | Authentication |
| POST | /company/Search | Search by country and name and/or addresses and/or contacts and/or registers |
| POST | /company/CompanyQuickSearch | Search by name and country |
| POST | /company/FlexibleSearchCompany | Flexible filtered search |
| POST | /company/AvailableSectionsByUID | Check available sections for entity |
| POST | /Person/PersonSearch | Person Directorship/ Shareholding Search |
| POST | /Order/RequestOrder | Place order for report |
| GET | /Order/ReceiveJsonReport | Receive report in JSON format |
| POST | /Order/ReceivePDFReport | Receive report in PDF format |
| GET | /common/Categories | Retrieves product categories |
| GET | /common/Products | Retrieves available products |
| GET | /common/Speeds | Retrieves speeds |
| POST | /Order/GetPricebySpeedId | Retrieves price given product, speed and country |
| POST | /Order/OrderDueDate | Retrieves due date for order |
| GET | /common/countries | Retrieves country IDs |
| GET | /common/organizations | Retrieves organizations |
| GET | /common/Registers | Retrieves registers for given country and/or organization |
| GET | /common/LegalForms | Retrieves Legal forms for given country |
| POST | /client/GetClientBalances | Retrieves client balances |
| POST | /client/GetClientOrders | Retrieves client’s placed order information |
| POST | /order/CheckOrderStatus | Retrieves order status |
| POST | /order/sendOrderReport | Responds with report PDF for given order |

# Company search

## POST /company/search

* No authentication required

### Header

* Content-Type: application/json

### JSON Request Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| SearchTypeId (required) | string | Defines search input, 0 = name, 2 = address, 4 = register number |
| CountryID (required) | Integer | Country filter. |
| Page (required) | Integer | Number of pages to return. Default value 1 |
| PageSize(required) | Integer | Number of results in each page. Default value 10 |
| Name | String | English name, Arabic name, or register number. Can contain % in the start, middle, and/or end. **(required if SearchTypeId = 1)** |
| Town | String | Town of company’s primary address. Used when SearchTypeId = 2 |
| Street | String | Steet of company’s primary address Used when SearchTypeId = 2 |
| PostalCode | String | Postal code of company’s primary address Used when SearchTypeId = 2 |
| POBox | String | Company’s POBox. Used when SearchTypeId = 2 |
| RegisterNumber | String | Company’s registration number. Used when SearchTypeId = 4 |
| FuzzySearch | bit | By default, FuzzySearch =1 for all searches. Specify FuzzySearch=0 to disable Fuzzy Search and retrieve exact match. |

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| Name | String | Company’s name |
| NameLocal | String | Name in local script |
| UID | String | country code + Cedar Rose reference number |
| CommercialRegister | String | Company’s registration number |
| SubjectCountryId | Integer | Country identifier |
| Country | String | Country name |
| Town | String | Town name of company’s primary address |
| POBox | String | POBox of Company’s primary Address |
| Street | String | Street name of company’s primary address |
| Area | String | Area name of company’s primary address |
| PostalCode | String | PostalCode of company’s primary address |
| AddressInfo | String | Additional address information |
| UpdatedDate | String | Date when company information was last updated. Format yyyy-MM-dd |
| Status | String | Active/Inactive status of company. NULL If status not available |
| ReferenceNo | String | Company’s reference number |
| **fuzzySearch** | bit | 1 if the Search Result belongs to Fuzzy Search, 0 if the result doesn’t belong to Fuzzy Search performed |
| **MatchingRate** | decimal | Fuzzy Search score of Company Name that ranges between values (0.0 – 1.0) which is based on the input Company Name provided |

### JSON Request/Response sample



# Company quick search

## POST /company/CompanyQuickSearch

* No authentication required

### Header

* Content-Type: application/json

### JSON Request Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| Name (*required*) | String | English name, Arabic name, or register number. Can contain % in the start, middle, and/or end. |
| CountryID (required) | Integer | Country filter. |
| FuzzySearch | bit | By default, FuzzySearch =1 for all searches. Specify FuzzySearch=0 to disable Fuzzy Search and retrieve exact match. |

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| IDATOM | String | Cedar Rose Company ID (serial number) |
| UID | String | country code + Cedar Rose reference number |
| Name | String | comma delimited list of trading names that are like the search filter |
| CommercialRegister | String | Main Commercial Register Number |
| Country | String | Country Name |
| Town | String | Town Name |
| POBox | String | POBOX Number |
| ReferenceNo | String | Additional Serial Number |
| Street | String | Street Name |
| Area | String | Area Name |
| PostalCode | String | Postal Code |
| RegisteredName | String | Company English Name (and Arabic name if available) |
| CountryId | String | Country identifier |
| **fuzzySearch** | bit | 1 if the Search Result belongs to Fuzzy Search, 0 if the result doesn’t belong to Fuzzy Search performed |
| **MatchingRate** | decimal | Fuzzy Search score of Company Name that ranges between values (0.0 – 1.0) which is based on the input Company Name provided |

### JSON Request/Response sample



Company flexible search

## POST /company/FlexibleSearchCompany

* No authentication required

### Header

* Content-Type: application/json

### JSON Request Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| SelectFields (*required*) | String[] | Columns of the response. Example: companyname, CountryName (complete list available in sample) |
| AllFilters (required) | array of objects (Filter: FilterName, FilterValues) | List of filters |
| FilterName (required) | string | Example: companyname, RegisterNumber (complete list available in sample) |
| FilterValues (required) | array of objects (From, To) |  |
| From (required) | String | if the filter is not a range, this parameter is considered as the filter value |
| To (required) | String | this parameter is only filled if he filter contains a range |

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| CompanyName | String | Company English Name |
| UID | String | country code + Cedar Rose reference number |
| Country | String | Country Name |
| RegisterNumber | String | Main Commercial Register Number |
| IDATOM | String | Cedar Rose Company ID (serial number) |

### JSON Request/Response sample

 

# Company available data

## POST /company/AvailableSectionsByUID

* No authentication required
* Append parameters to URL: UID (string, required)
* Example: https://apitest.cedar-rose.com/api/Company/AvailableSectionsByUID?UID=SAC0028018

### JSON Response sample



# Person Directorship/ Shareholding Search

## POST /Person/PersonSearch

* Requires authentication

### Header

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

### JSON Request Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| FirstName | String | First name |
| MiddleName | String | Middle name |
| LastName | String | Last name |
| UID | String | Person’s Unique Identifer |
| YearOfbirth | Integer | Year of birth |
| MonthOfBirth | Integer | Month of birth |
| DayOfBirth | Integer | Day of birth |
| IsFormer | Boolean |  |
| isExact | Boolean | Exact match |
| LanguageId | Integer |  |
| IdentityNumber | String | Person’s ID number |
| NationalityCountryId | Integer | CountryId of Person’s nationality |

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| FirstName | String | First name |
| MiddleName | String | Middle name |
| LastName | String | Last name |
| UID | String | Person’s Unique Identifer |
| YearOfbirth | Integer | Year of birth |
| MonthOfBirth | Integer | Month of birth |
| DayOfBirth | Integer | Day of birth |
| IsFormer | Boolean |  |
| isExact | Boolean | Exact match |
| LanguageId | Integer |  |
| IdentityNumber | String | Person’s ID number |
| NationalityCountryId | Integer | CountryId of Person’s nationality |

### JSON Request/Response sample

 

# Place Order (or download)

## POST /Order/RequestOrder

* Requires authentication

### Header

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

### JSON Request Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| SubjectName (required\*) | String | The available name of the company. Required to include either SubjectName or IDATOM |
| ProductId (required) | String | serial number of the requested product (example: 284 is the serial number of Company Credit Report) |
| SpeedId (required) | String | serial number of the requested Speed (example: 1 is the serial number of the regular speed) |
| SubjectCountryID (required) | String | serial number of the Country of the order |
| IDATOM (required\*) | String | serial number of the company (if available). Required to include either SubjectName or IDATOM |
| AdditionalInfo | String | additional info that you would like to include in your request |
| SubjectDetails | String | available details about the company |
| TradingName | String | available trading names of the company |
| CustomerReference | String | could be your serial number or project ID or purchase number or just "0" |

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| Price | String | the price amount of the order, according to the product, speed, and country |
| VAT | String | the VAT amount |
| DueDate | String | the Due Date of the order, according to product, speed, country, holidays... |
| UID | String | country code + Cedar Rose reference number |
| Content | String (XML) | you will receive xml design separately according to the product |

### JSON Request/Response sample

 

### Report XSDs



# File Upload for Order

## POST /Order/Files/OrderFileUpload

* Requires authentication
* Header: Content-Type: application/x-www-form-urlencoded

### Request Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| OrderId | Integer | Order Identifier |
| FileTypeId | Integer | File Type identifier (refer Get File Types) |
| File | .doc,.docx,.pdf,  .jpg,.jpeg,.png | File to be uploaded associated with the order |

### JSON Response sample



# Get File Types

## GET /Order/Files/FileTypes

* No authentication
* Returns the FileTypes in the system for Company and Person

### JSON Response sample



# Delete Uploaded File

## POST /Order/Files/DeleteUploadedFile

* Requires authentication
* Append parameters to URL: OrderId (integer, required) and FileId (integer, required)
* Returns 200 OK on file deletion

# Get Uploaded Files

## POST /Order/Files/GetUploadedFiles

* Requires authentication
* Append parameters to URL: OrderId (integer, required)
* Example: http://apitest.cedar-rose.com/api/Order/Files/GetUploadedFiles?orderid=1472315

### JSON Response sample



# Receive JSON Report

## GET /order/ReceiveJsonReport

* Requires authentication
* Append parameters to URL: OrderId (integer, required)
* Example: https://apitest.cedar-rose.com/api/company/ReceiveJsonReport?OrderId=1413189

### JSON Response sample



# Receive PDF Report

## POST /order/ReceiveJsonReport

* Requires authentication
* Append parameters to URL: OrderId (integer, required)
* Example: https://apitest.cedar-rose.com/api/company/ReceiveJsonReport?OrderId=1413189

### JSON Response sample



# Supporting Functions

## Product Categories - GET /common/Categories

### Header

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

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| ID | Integer | Product category identifier |
| Name | String | Product’s category name |

## Products - GET /common/Products

### Header

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

### Request Parameters

* Append parameters to URL: CategoryId (int, greater than zero, required)

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| ID | Integer | Product identifier |
| Name | String | Product name |

## Available Products by UID - POST /common/ AvailableProductsByUID

* Requires authentication
* Append parameters to URL: UID (string, required)
* Example: https://apitest.cedar-rose.com/api/common/AvailableProductsByUID?UID=AEC48633090

### JSON Response sample



## Speeds - GET /common/Speeds

### Header

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

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| ID | Integer | Speed identifier |
| Name | String | Speed name |

## Price - POST /Order/GetPricebySpeedId

### Header

* Content-Type: application/x-www-form-urlencoded
* Authorization: Bearer {TOKEN\_FROM\_LOGIN}

### Request Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| ProductId | String | Product identifier |
| SpeedId | String | Speed Identifier |
| SubjectCountryId | String | Country Identifier |

### Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| amount | Decimal | Cost of order |

## Due Date - POST /Order/OrderDueDate

### Header

* Content-Type: application/x-www-form-urlencoded
* Authorization: Bearer {TOKEN\_FROM\_LOGIN}

### Request Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| ProductId | String | Product identifier |
| SpeedId | String | Speed Identifier |
| SubjectCountryId | String | Country Identifier |

### Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| DueDate | String | Due date for report delivery. Date format dd/mm/yyyy |

## 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 |

## Organizations - GET /common/organizations

### Header

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

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| ID | Integer | Organization identifier |
| Name | String | Organization name |

## Registers - GET /common/Registers

### Header

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

### Request Parameters

* Append parameters to URL: IDOrganisation, CountryID

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| ID | Integer | Register identifier |
| Name | String | Register name |

## Legal Forms - GET /common/LegalForms

### Header

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

### Request Parameters

* Append parameters to URL: CountryID

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| ID | Integer | Legal form identifier |
| CountryID | Integer | Country identifier |
| Name | String | Legal form name |

## Client Balances - POST /client/GetClientBalances

### Header

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

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| AccountBalance | String | Current account balance |
| Discount | String | Discount for client in percentage |
| DownloadBalance | String | Free download balance |
| CurrencyID | String | Client preferred currency identifier |
| CurrencySymbol | String | Client preferred currency symbol |
| CurrencyName | String | Client preferred currency name |

## Client Orders - POST /client/GetClientOrders

### Header

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

### JSON Response Example



## Check Order Status - POST /order/CheckOrderStatus

### Header

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

### Request Parameters

* Append parameters to URL: OrderID (int)

### JSON Response Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| Status | Integer |  |
| Content | String | XML of the report |
| DueDate | String | Due Date of the Order |

## Send Order PDF Report - POST /order/sendOrderReport

### Header

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

### Request Parameters

* Append parameters to URL: OrderID (int)

### Response

Report file in PDF

# Get Reset Password Token

## GET /account/GetResetPasswordToken

* No authentication
* Header: Content-Type: application/x-www-form-urlencoded
* The token is received to your registered email address.

### Request Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| Email | string | Email Address tor receive |

# Reset Password

## GET /account/ResetPassword

* No authentication
* Header: Content-Type: application/x-www-form-urlencoded

### Request Parameters

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| Username | String | Username of the account |
| ResetToken | String | Reset Token received to the email address via Get Reset Password Token endpoint |
| newPassword | String | New Password |

# FAQ

## Question 1: How to optimise the response time?

Please note that our database contains millions of records and when the API searches a company name it also searches the trading names, the former names, the branch names and so on.

- use the “country” filter in your API company searches.

- try to avoid searching for companies using “one word” only.

- if you use “one word” searches or short searches, please avoid using words that are very common, example “International” which is present in thousands of company names in all the countries we cover.

- avoid using the “contains” filter when you can use other options like “Exact”, “Starts With”, “Ends With”. Example: you can search for “Cedar Rose%” instead of “%Cedar Rose%” when searching for Cedar Rose Int. Services Ltd.

## Question 2: What are the Language capabilities?

- We are referring to native/Arabic as we are adding Persian names in our database to companies and individuals.

- When Searching for an Individual: Searching through our API will enable users to use both native/Arabic and Latin/Romanised characters when searching for an individual relation for Directorship/Shareholding in our database. The result returns findings in the same language used for searching i.e., either Arabic or Latin/Romanised as searched. We believe the search language option will add greater accuracy for matching even if the search used is a fuzzy search. I believe fuzzy searches are usually done when the analyst is not sure of the spelling and particularly when converting from native i.e., Arabic to Latin/Romanised characters, but in this case of ours, we offer searching with both types characters.

- When Searching for a company: Currently searching through our API enables users to use Latin/Romanised characters only when searching for a company relation for Directorship/Shareholding. However, we have scheduled and by end of December for this service to also offer native/Arabic as well as the Latin/Romanised characters search.