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Abstract

User guide describing how to use Cedar Rose Comply API

CR Comply API

User Documentation

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# Introduction

CR Comply is an automated all-in-one compliance screening tool to assess third-party risk levels and accelerate the customer on-boarding process. Uncover sanctioned entities, in PEPs (Politically Exposed Persons) and adverse media on companies and people.

The CR Comply API enables you to integrate your systems with our services to automate many of the functions available through the web user interface. Our API follows the REST convention and accepts and returns JSON data.

All API requests must be made over HTTPS; calls made over plain HTTP will fail. API requests without authentication will also fail - see the Authentication section for information on correctly authenticating calls to the CR Comply API.

# 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 CR Comply is <https://api.cedar-rose.com/api/compliance>. The current list of available API endpoints on CR Comply API is shown below.

|  |  |
| --- | --- |
| **ENDPOINT** | **DESCRIPTION** |
| POST /searches | Create a new search |
| GET /searches | Get a list of your previous searches |
| GET searches/{id} | Get an overview of one of your searches |
| GET searches/{id}/details | Get full search results of one of your searches |
| GET searches/{id}/monitors | Get monitored search details |
| POST searches/{id}/monitors | Update monitored search details (start/stop monitoring) |
| GET searches/{id}/monitors/differences | Retrieve the differences on the monitored search |
| POST searches/{id}/update | Update details of one of your searches (e.g. status) |
| POST searches/{id}/entities | Update entities details of one of your searches |
| POST searches/{id}/comments | Create a comment (comment on search or comment on entity) |
| GET searches/{id}/comments | Retrieve comments for a specific search |

# Creating Searches

## POST /searches

Create a new search by posting search terms, parameters, and filters. By default, creating a search will pull the first 100 results (if that many exist) from our database. By using the offset and limit parameters, you can expand this, or create multiple searches which "paginate" through our data sources.

### JSON POST PARAMETERS

|  |  |  |
| --- | --- | --- |
| FIELD TYPE | TYPE | DESCRIPTION |
| search\_term (*required*) | String/Object | A string representing the name of the entity or an Object |
| client\_ref (*optional*, max 255 characters)) | String | Your reference for this person/entity for which you are searching. Used for tracking searches and auto-whitelisting recurring results |
| search\_profile (*optional*) | String | The identifier of a search profile (depending on the search profile this is either a slug or a profile id) that can be retrieved from the UI |
| fuzziness (*optional*) | Float(0.0 to 1.0) | Determines how closely the returned results must match the supplied name. Overridden by exact\_match |
| offset (*optional*) | Integer(default 0) | Match results from the database, starting from the offset value |
| limit (*optional*) | Integer(default 100, Max 100) | Match results from the database, taking up to this many matches each search |
| filters (*optional*) | Object | Specify filters within the search to narrow down the results. These are specified below, and are all optional |
| tags (*optional*) | Object | Object of name => value pairs (name must be string), must be existing tags |
| country\_codes (*optional*) | Array of ISO 3166-1 alpha-2 | Results are filtered by the entity nationality or country of residence |
| exact\_match (*optional*) | Boolean | Exact match disables all standard and optional matching behaviours 0% fuzziness disables 1 letter typo matching but keeps all other matching behaviours (standard and optional) |

### Filters in searches

Filters are used within the search to refine the result set. There is an extensive range of filters available - use of the filters is entirely optional. The example shows how the filters should be included in the request to the endpoint.

The full range of filter parameters available is outlined below.

|  |  |  |
| --- | --- | --- |
| FIELD NAME | TYPE | DESCRIPTION |
| types | Array of strings | (\*) One or more of:   * sanction * warning * fitness-probity * pep * pep-class-1 * pep-class-2 * pep-class-3 * pep-class-4   If you use classic Adverse Media Taxonomy:   * adverse-media * adverse-media-financial-crime * adverse-media-violent-crime * adverse-media-sexual-crime * adverse-media-terrorism * adverse-media-fraud * adverse-media-narcotics * adverse-media-general   If you use FATF-aligned Adverse Media Taxonomy:   * adverse-media-v2-property * adverse-media-v2-financial-aml-cft * adverse-media-v2-fraud-linked * adverse-media-v2-narcotics-aml-cft * adverse-media-v2-violence-aml-cft * adverse-media-v2-terrorism * adverse-media-v2-cybercrime * adverse-media-v2-general-aml-cft * adverse-media-v2-regulatory * adverse-media-v2-financial-difficulty * adverse-media-v2-violence-non-aml-cft * adverse-media-v2-other-financial * adverse-media-v2-other-serious * adverse-media-v2-other-minor |
| birth\_year | Integer | Year of birth, if known |
| remove\_deceased | "1" or "0" | A flag which when set, removes deceased people from search results |
| country\_codes | Array of ISO 3166-1 alpha-2 strings | Results filtered by nationality or country of residence. Country code filtering applies to:   * Entity of type PEP only * Entity of type PEP with Adverse Media * Entity that has 1 country value or more (only one must match)   Country code filtering does not apply to (i.e. results will still appear regardless of the country filter):   * Entity on sanction lists will always appear regardless of other status (PEP, Adverse media) * Entity that has adverse media mentions only * Entity that does not have a country assigned |
| entity\_type | String (one of):   * "person" * "company" * "organisation" * "vessel" * "aircraft" | Entity type filter is not a hard filter between different entity types. It only optimizes the matching logic to the relevant entity type.  Matching:   * Depending on the entity type, pre-fixes and suffixes will be processed differently to avoid false negatives ("Mr Robert Mugabe" matching "Robert Mugabe" for person, "Cimex Ltd" matching "Cimex" for company). * Equivalent names considered specifically for different entity types ("Robert" and "Bob" versus "Investment" and "Inversion"). * Initial matching between individual ("Carl W. Litsch") versus company acronyms ("KFC").   Optional: If missing, default rules and logic are applied. |

# Retrieving Searches

## GET /searches

Retrieve the previous searches on your account. This includes many options for pagination and filtering results.

### Filtering parameters

The following parameters can be applied to the query string to filter the data returned.

|  |  |
| --- | --- |
| FIELD | DESCRIPTION |
| assignee\_id | Show searches assigned to a specific user |
| searcher\_id | Show searches performed by a specific user |
| risk\_level | Show searches where the risk level is one of the specified options: ('low', 'medium', 'high', 'unknown'). Use commas to separate multiple options, eg &risk\_level=medium,high |
| submitted\_term | Show searches where the term is unsanitised and includes symbols and punctuation marks |
| match\_status | Show searches where the match\_status is one of the specified options: ('no\_match', 'false\_positive', 'potential\_match', 'true\_positive', 'unknown', 'true\_positive\_approve', 'true\_positive\_reject'). Use commas to separate multiple options, eg &match\_status=potential\_match,true\_positive |
| search\_term | Searches that match search term (3 characters min) |
| created\_at\_from | Searches made from date (yyyy-mm-dd) |
| created\_at\_to | Searches made to date (yyyy-mm-dd) |
| tags | Searches registered against given tags, comma separated represented as 'name:value', eg 'internal\_ref:1234' or internal\_ref:1234,t\_type:custom' |
| client\_ref | Show searches with the same client reference |
| monitored | Searches with a specific monitored status, eg. suspended for suspended searches, un-suspended for actively monitored searches and false for searches which are not monitored |

### Sorting parameters

The following parameters can be applied to the query string to sort the data returned.

|  |  |
| --- | --- |
| FIELD | DESCRIPTION |
| sort\_by | One of 'id', 'created\_at', 'updated\_at', 'assignee\_id', 'searcher\_id' |
| sort\_dir | One of 'ASC, 'DESC' |

### Pagination parameters

The following parameters can be applied to the query string to paginate the data returned.

|  |  |
| --- | --- |
| FIELD | DESCRIPTION |
| per\_page | Number of searches to return per "page" (integer, max 100) |
| page | Which page to fetch (integer) |

## GET /searches/{id}

Retrieve a specific search on your account. For monitored searches, the original result will be updated with the latest results from the monitor runs.

### URL PARAMETERS

|  |  |
| --- | --- |
| FIELD | DESCRIPTION |
| id | Either the numeric search ID, or the search REF |

## GET /searches/{id}/details

Retrieve the full details and results of a specific search on your account.

### URL PARAMETERS

|  |  |
| --- | --- |
| FIELD | DESCRIPTION |
| id | Either the numeric search ID, or the search REF |

# Updating Searches

## POST searches/{id}/update

Update the assignee, status or risk level of a search.

### URL PARAMETERS

|  |  |
| --- | --- |
| FIELD | DESCRIPTION |
| id | Either the numeric search ID, or the search REF |

### JSON PATCH PARAMETERS

One or more of the following fields can be specified in the PATCH request.

|  |  |  |
| --- | --- | --- |
| FIELD | TYPE | DESCRIPTION |
| match\_status | String | One of 'unknown', 'no\_match', 'potential\_match', 'false\_positive', 'true\_positive', 'true\_positive\_approve', 'true\_positive\_reject' |
| risk\_level | String | One of 'low', 'medium', 'high', 'unknown' |
| assignee\_id | Integer | The ID of the user to whom the case should be assigned |
| limit | Integer | The number of matches retrieved (max. 100) |
| tags | Object | Object of name => value pairs ( name must be string ), must be existing tags |

## POST searches/{id}/entities

Update the match-status of entities within a search result.

### URL PARAMETERS

|  |  |
| --- | --- |
| FIELD | DESCRIPTION |
| id | Either the numeric search ID, or the search REF |

### JSON POST PARAMETERS

One or more of the following fields can be specified in the POST request.

|  |  |  |
| --- | --- | --- |
| FIELD | TYPE | DESCRIPTION |
| entities | Array | Array of entity ids to be updated (list of strings) |
| match\_status | String | One of 'no\_match', 'false\_positive', 'potential\_match', 'true\_positive','unknown' |
| risk\_level | String | One of 'low', 'medium', 'high', 'unknown' |
| is\_whitelisted | Boolean | true or false |

# Monitored Searches

## GET searches/{id}/monitors

Retrieve the information on the monitored search.

### URL PARAMETERS

|  |  |
| --- | --- |
| FIELD | DESCRIPTION |
| id | Either the numeric search ID, or the search REF |

## POST searches/{id}/monitors

Update the search monitors.

### URL PARAMETERS

|  |  |
| --- | --- |
| FIELD | DESCRIPTION |
| id | Either the numeric search ID, or the search REF |

### JSON POST PARAMETERS

One or more of the following fields can be specified in the POST request.

|  |  |  |
| --- | --- | --- |
| FIELD | TYPE | DESCRIPTION |
| is\_monitored | Boolean | Start on true and stop on false. For monitored searches, the original search will be updated with the latest results from monitor runs. |

## GET searches/{id}/monitors/differences

Retrieve the differences on the monitored search on a specific date.

### URL PARAMETERS

|  |  |
| --- | --- |
| FIELD | DESCRIPTION |
| id | Either the numeric search ID, or the search REF |
| date (*optional*) | The reference date (format: yyyy-mm-dd); if missing, the current day will be used |

# Comments

## POST searches/{id}/comments

Create comment on search or create comment on entity.

### URL PARAMETERS

|  |  |
| --- | --- |
| FIELD | DESCRIPTION |
| id | Either the numeric search ID, or the search REF |

### JSON POST PARAMETERS

|  |  |  |
| --- | --- | --- |
| FIELD | TYPE | DESCRIPTION |
| comment | String | The comment that will be added |
| entity\_id | String | The entity id (required for adding comment on entity) |

## GET searches/{id}/comments

Retrieve comments for a specific search

### URL PARAMETERS

|  |  |
| --- | --- |
| FIELD | DESCRIPTION |
| id | Either the numeric search ID, or the search REF |

# Samples

Samples are provided upon request.

Samples provided in the form of Postman collections.

To request CR Comply API sample request/responses, please contact our Sales team at [orders@cedar-rose.com](mailto:orders@cedar-rose.com)

# Webhook

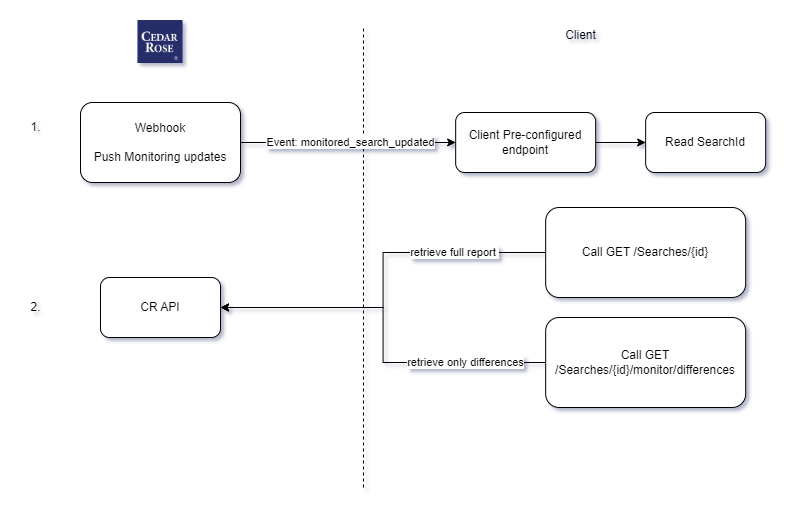
Webhook for CR Comply is an automated request sent to a pre-configured Client Endpoint that notifies the client about updates and changes in a monitored search.

### JSON Request Content

Following are the data points sent by the webhook which broadly includes search\_id, entities that were updated, added and removed.

|  |  |  |
| --- | --- | --- |
| FIELD TYPE | TYPE | DESCRIPTION |
| search\_id | Integer | The numeric ID of the search |
| updated | Array | An array of the Entity IDs in the search result which have been modified. |
| new | Array | An array of the Entity IDs which have been added to the search result. |
| removed | Array | An array of the Entity IDs which have been removed from the search result. |
| is\_suspended | Boolean | Indicates whether this monitored search has been suspended or not. |

The flow described below assumes that you have placed a search with monitoring enabled:



1. When a monitored search has been detected as having updated search results available – a notification is sent from the webhook to the configured client endpoint which includes an event "monitored\_search\_updated” and the following for a specific searchId:
   1. List of entity IDs that were newly added
   2. List of entity IDs that were updated
   3. List of entity IDs that were removed
2. The updates for the searchId can either be retrieved by:
   1. Calling GET Searches/{id} - returns a full updated report of the Search
   2. Or Calling GET Searches/{id}/monitor/differences/ - returns only the differences (entities that were added,updated or removed)