



Reporting APIs

Explanations and examples

2025





CANNABIS RETAIL SOFTWARE

Cova Reporting API

The reporting data available on Cova Hub is also available via API. This document outlines the requests needed to discover available reports and how to interpret the parameter definitions to make a valid request.

Definitions

Company: A business, firm, or corporation that may operate one or many locations as physical brick-and-mortar stores and/or virtual ecommerce presence. Most calls to Cova APIs require a *CompanyId*, which is included in every integration onboarding package we supply.

Location: A physical store or dispensary customers can visit to purchase cannabis and accessories. A company may have many locations. Each location has its own inventory and may define its own prices. Many Cova API endpoints require a location id, commonly represented as *EntityId*.

Cova Dev Portal: Documentation for integration developers regarding Cova APIs. These can be found at <https://api.covasoft.net/Documentation>.

Endpoints

There are three endpoints available. One to retrieve a full list of all available reports, one to retrieve report definition details for a single report by its identifier, and a call to execute a report.

In the following API endpoint examples, values enclosed in double curly brackets represent a variable that must be supplied. I.e. `{{CompanyId}}`. The base URL for all Cova APIs is <https://api.covasoft.net/>

API calls

Endpoint	Verb	Notes
<code>reporting/companies/{{CompanyId}}/reports</code>	GET	Get all report definitions
<code>reporting/companies/{{CompanyId}}/reports/{{reportId}}</code>	GET	Get a single report definition
<code>reporting/companies/{{CompanyId}}/reports/{{reportId}}/runreport</code>	POST	Request report data

Resource and property definitions

ReportDefinition

Property	Type	Notes
Id	GUID	Report id
Name	Text	Name of the report, visible in Hub
Description	Text	



CANNABIS RETAIL SOFTWARE

Category	Text	Category for Hub UI organization purposes
Parameters	<u>ReportParameter</u> []	List of parameters needed to request a given report

ReportParameters

Property	Type	Notes
Name	Text	Parameter name
Required	Boolean	Is a value required for this parameter
Label	Text	User friendly label
Options	<u>ParameterOption</u> []	Valid values for this parameter. Empty array indicates you must build the options yourself
Multiple	Boolean	Does the parameter support an array of values. For example: multiple location identifiers.
DataType	Text	Data type of the parameter

DataType

Name	Notes
Integer	
Decimal	
String	Basic text and UUID/GUID values
IntegerArray	i.e. [123, 321]
StringArray	i.e. ["this", "that"]
Boolean	True/false
Date	Format: yyyy-MM-ddTHH:mm (2025-06-24T14:30)
DateRange	See <u>DateRange</u> DataType below

ParameterOption

Property	Type	Notes
Id	Int/Text	Option identifier
Label	Text	User friendly option description

DateRange DataType

Property	Type	Notes
DateRangeType	Int	Id property of returned Parameter Options for DataType of DateRange. Limited to 31 days via API. See A note about dates below
StartDate	Datetime	Format: yyyy-MM-ddTHH:mm (2025-06-24T14:30) Ignored for all but "Custom Date" (Id: 9)
EndDate	Datetime	Format: yyyy-MM-ddTHH:mm (2025-06-24T14:30) Ignored for all but "Custom Date" (Id: 9)



ReportRequest

Property	Type	Notes
Parameters	Object	Your request parameters. See Building a Report Request

ReportResponse

Property	Type	Notes
	Object[]	The response model for each report will differ based on the report chosen.

Example Report Definition

The JSON data on the next page shows the report definition for the “GL Transactions” report. Some of the options have been removed for readability. Note how some Options have integer identifiers (DateRange) while others have text identifiers (Accounts). Some options were not provided at all (Entities).

Parameter options are often derived from retailer-specific data, like their Company Tree for Entities (locations), Classification tree, Pricing Groups, etc. If the reporting service does not provide options, combining the Parameter Name, Label, and Data Type should provide enough information to determine what the report needs. From the example JSON below:

```
{
  "Name": "Entities",
  "Required": false,
  "Label": "Locations",
  "Options": [],
  "Multiple": true,
  "DataType": "IntegerArray"
}
```

This parameter is an “Integer Array” of Entities/Locations. The identifiers for location entities are integers, so an array of location identifiers are valid values here.



CANNABIS RETAIL SOFTWARE

JSON example:

```
{
  "Id": "90f15b17-ae15-4cb1-ad6d-772e6fd0a436",
  "Name": "GL Transactions",
  "Description": "View detail transactions per GL account broken out by location.",
  "CreatedDateUtc": "2023-07-05T20:33:10.6562968",
  "Category": "Finance",
  "Parameters": [
    {
      "Name": "DateRange",
      "Required": true,
      "Label": "Date Range",
      "Options": [
        {
          "Id": 9,
          "Label": "Custom Date"
        },
        {
          "Id": 0,
          "Label": "Today"
        }
        //... etc
      ],
      "Multiple": false,
      "DataType": "DateRange"
    },
    {
      "Name": "Entities",
      "Required": false,
      "Label": "Locations",
      "Options": [],
      "Multiple": true,
      "DataType": "IntegerArray"
    },
    {
      "Name": "Accounts",
      "Required": false,
      "Label": "Accounts",
      "Options": [
        {
          "Id": "208d9f8e-79ca-4333-9b39-d35f0d74b715",
          "Label": "10000: Bank"
        },
        {
          "Id": "a0ccc4bb-2563-41d8-9988-dd5ea065fdfd",
          "Label": "1200: Inventory On Hand"
        }
      ],
      "Multiple": true,
      "DataType": "StringArray"
    }
  ]
}
```



Building a report request

The Request Body for a report must be formatted as the example shown below; a Parameters object with properties named to match each "Name" in the report definition parameters. Optional parameters (Required = false) need not be supplied if you do not have value(s) to provide for your request. For example, to request data for "all accounts", omit the "Accounts" parameter. This request example corresponds to the report definition of the GL Transactions report shown above.

```
{
  "Parameters": {
    "DateRange": {
      "StartDate": "2025-04-25T00:00",
      "EndDate": "2025-04-25T23:59",
      "DateRangeType": 9
    },
    "Entities": [
      842966,
      539010
    ],
    "Accounts": [
      "e6d57619-2c39-4fb8-8369-bb1cfee773f7",
      "10e2bc53-e756-491b-9a96-069d0b4ee0d8"
    ]
  }
}
```

A note about dates

The DateRange parameter supports many options (e.g., *Yesterday*, *Last 14 Days*), but for consistency and predictability, we recommend using the **Custom Date Range** (id #9) exclusively when calling the API. In all cases, the requested date range is limited to 31 days, so many of the options may be obsolete anyway.

Datetime values returned by the reporting service are in **the local time of the store or location where the transaction occurred**, unless the property name explicitly states **UTC**. For example, if you request a *Sales Report* with a custom date range of '2025-05-10 15:00' to '2025-05-10 16:00', each store will return sales between 3 PM and 4 PM **in its own local time zone**.