

Codat Connector User Guide

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Overview

Connectors are simple, data point connections to external SaaS providers, that are used to enrich internal customer data to help in onboarding and risk decision scenarios. API Connectors gather data from a collection of REST APIs with the purpose of merging them into a cloud-based data storage system. This process gives the possibility of filtering and transforming data into a proper format or structure for the purposes of querying and analysis.

Codat Connector offers easy integrating with companies' accounting, banking, eCommerce, PoS, and payment software that provides a standard way of connecting to different financial platforms in real-time. By implementing the FintechOS Codat Connector, businesses can access and retrieve relevant financial information from multiple databases, such as balance sheets, profit and loss reports, cash flow statements, and so on.

For information on how to use the connector in digital journeys and the API methods, see the following pages:

- [Add Codat Connector in Digital Journeys](#)
- [API Methods](#)

Business Pain Points

The Codat Connector is aimed at resolving some of the pain points when searching for relevant financial information that is spread across multiple systems:

- Searching for financial data is time consuming.
- Financial institutions use different accounting systems.
- Limited time to analyze financial statements from customers.

Key features

Once integrated in a digital journey, the Codat Connector solves these pain points by offering a simple way to collect data from multiple databases.

- Easy to use. It can be added to a digital journey to simplify the search process.
- Time-efficient. It collects all the needed financial information from multiple systems.
- Single point of entry for a detailed search that offers real-time customer financial data.
- Access to complete commerce and financial data.
- Up-to-date financial data (access to the primary source).
- Extract data automatically (no manual work).
- Simplicity: data structure is independent of the source.
- One integration to gain access to the different accounting platforms.
- Possibility to monitor customer's financial health.

Install Codat Connector

Follow the below steps to install FintechOS Codat Connector.

IMPORTANT!

Ecosystem Codat Connector cannot run independently and must be included in a [Service Pipes](#) project.

Prerequisites

In order to install the Codat Connector and run it locally, you need:

- A code editor such as [Visual Studio Code](#) or [IntelliJ IDEA](#).
- Latest versions of [Java Development Kit](#), [Git](#), and [Apache Maven](#) installed.
- Access to [service-pipes - Azure Artifacts](#) and the [GitHub Service Pipes template repository](#).

Pre-installation Steps

- i. Submit a request to [FintechOS ITSupport](#) to obtain access to *FintechOS-ManagedServices Azure Devops Artifactory* ([service-pipes - Azure Artifacts](#)) and the [GitHub Service Pipes template repository](#).
- ii. Create a [personal access token \(PAT\)](#) as an alternative password for Azure DevOps authentication after you obtained ITSupport access.

- iii. [Download the *settings.xml* file](#) and update it with your PAT. Then, place it in your Apache Maven installation.

Install Codat Connector

1. Log into your GitHub account and access the [Service Pipes Template](#) repository.
2. Use the instructions from the **README.md** file to create and configure your project.

After the installation is complete, [add the Codat Connector to your Digital Journey](#).

Codat Connector API Methods

As a general orientation, for indicators related to liabilities and assets you can look to the [Retrieve Balance Sheet](#) method. For information regarding income, expense gross profit, net operating profit, or net profit you can look to the [Retrieve Profit & Loss](#) method. If you are looking for precalculated key indicators (gross profit margin, EBITDA, debt service coverage ratio, current ratio, quick ratio, free cash flow, working capital, fixed service coverage charge), you can start with the [Retrieve Key Financial Metrics](#) method.

For detailed accounting data or details about sales or expenses you can use [Retrieve Enhanced Profit & Loss](#) method.

Codat Connector uses API keys to control access to the API. The API key needs to be included in all API requests to the server, Base64 encoded within an Authorization header. For example: `Authorization: Basic your_encoded_api_key`.

```
https://api.codat.io
Authorization: Basic your_encoded_api_key.
```

Authentication Header Example

```
from("direct:httpRoute")
    .log("Http Route started")
    .setHeader(Exchange.HTTP_METHOD).constant
(HttpMethod.GET)
    .setHeader(Exchange.CONTENT_TYPE, constant
("application/json"))
    .setHeader("Authorization").simple("Basic "+
myToken)
    .to("https://my-rest-ws-url")
    .log("Response : ${body}");
```

IMPORTANT!

The authorization header must be included in every API request.

Navigate to the below pages to see the API returns for each request made using the Codat Connector.

Create Client

This method initiates the process of onboarding a new company on the Codat platform via the API exposed by CODAT for creating the company. This can be done either using the POST /companies Codat endpoint or through the [Codat Portal](#).

NOTE

Make sure you include the [authorization header](#) in your API request.

Request Example

```
"item": [
  {
    "name": "CreateClient",
    "request": {
      "method": "POST",
      "header": [],
      "body": {
        "mode": "raw",
        "raw": "{\r\n  \"name\": \"Test
Gica7\"\r\n}",
        "options": {
          "raw": {
            "language": "json"
          }
        }
      }
    }
  },
]
```



```

        "url": {
          "raw": "https://app-ecos-apache-camel-
test.azurewebsites.net/services/api/codat/createclient?page=
1",
          "protocol": "https",
          "host": [
            "app-ecos-apache-camel-test",
            "azurewebsites",
            "net"
          ],
          "path": [
            "services",
            "api",
            "codat",
            "createclient"
          ],
          "query": [
            {
              "key": "page",
              "value": "1"
            }
          ]
        },
        "response": []
      },
    ],
  },
}

```

Response Example

```

{
  "id": "c4044721-77e3-4b4c-9637-8d40200886a1",
  "name": "SME 3",
  "platform": "",
  "redirect": "Link",
  "dataConnections": [],
  "created": "2022-03-16T13:07:55.9334339Z",
  "createdByUserName": "UserName"
}

```

Check Status Data

This method is used to verify if data synchronization between the source system and the Codat database is done. The call is made through the GET `/companies/{client_id}/dataStatus` Codat endpoint.

NOTE

Make sure you include the [authorization header](#) in your API request.

Response Example

```
{
  "company": {
    "dataType": "company",
    "lastSuccessfulSync": "2022-03-16T10:55:04.8004132Z",
    "currentStatus": "Complete",
    "latestSyncId": "409110e2-b1d7-4acf-86ec-b94d587b768b",
    "latestSuccessfulSyncId": "409110e2-b1d7-4acf-86ec-b94d587b768b"
  },
  "chartOfAccounts": {
    "dataType": "chartOfAccounts",
    "lastSuccessfulSync": "2022-03-16T10:55:05.1325826Z",
    "currentStatus": "Complete",
    "latestSyncId": "e570b5b1-76d1-44bf-a8a3-e7954ec194f1",
    "latestSuccessfulSyncId": "e570b5b1-76d1-44bf-a8a3-e7954ec194f1"
  }
}
```

Retrieve Balance Sheet

This method is used to extract the customer's balance sheet data in order to determine their creditworthiness. The call is made through the GET `/companies/{companyId}/data/financials/balanceSheet` Codat endpoint. For detailed information returned by this method please see the [Datamodel Accounting Balancesheet](#) page.

Before calling this method, make sure that the [Check Status Data](#) result contains the following parameter response: `"dataType": "balanceSheet"` with `"currentStatus": "Complete"`.

NOTE

Make sure you include the [authorization header](#) in your API request.

Request Example

```
{
  "name": "GetBalanceSheet",
  "request": {
    "method": "GET",
    "header": [],
    "url": {
      "raw": "https://app-ecos-apache-camel-
test.azurewebsites.net/services/api/codat/getbalancesheet/78
d790d2-6935-41f8-9331-
3c0b06946e5f?periodLength=1&periodsToCompare=1",
      "protocol": "https",
      "host": [
        "app-ecos-apache-camel-test",
        "azurewebsites",
        "net"
      ],
      "path": [
        "services",
        "api",
        "codat",

```

```

    "getbalancesheet",
    "78d790d2-6935-41f8-9331-
3c0b06946e5f"
  ],
  "query": [
    {
      "key": "periodLength",
      "value": "1"
    },
    {
      "key": "periodsToCompare",
      "value": "1"
    }
  ]
},
"response": []
}

```

Response Example

```

{
  "currency": "GBP",
  "reports": [
    {
      "date": "2022-02-28T00:00:00",
      "assets": {
        "accountId": "",
        "name": "Assets",
        "value": 2985325.71,
        "items": [
          {
            "accountId": "",
            "name": "Fixed Assets",
            "value": 691101.57,
            "items": [
              {
                "accountId": "724ca578-8b5d-4bdb-ad45-
e3820eee9de9",
                "name": "Office Equipment",
                "value": 358086.78,
                "items": []
              }
            ]
          }
        ]
      }
    }
  ]
}

```

```

        {
            "accountId": "be3eb911-034b-42de-95db-
0d58ac978b7f",
            "name": "Computer Equipment",
            "value": 333014.79,
            "items": []
        }
    ],
},
{
    "accountId": "",
    "name": "Current Assets",
    "value": 2294224.14,
    "items": [
        {
            "accountId": "1b6266d1-1e44-46c5-8eb5-
a8f98e03124e",
            "name": "Accounts Receivable",
            "value": 207101.98,
            "items": []
        },
        {
            "accountId": "22de1660-d745-4809-a363-
16b134607e66",
            "name": "Prepayments",
            "value": 54192.89,
            "items": []
        },
        {
            "accountId": "",
            "name": "Bank",
            "value": 2032929.27,
            "items": [
                {
                    "accountId": "dbcaf288-2b39-4b95-8ab3-
42202ab15918",
                    "name": "Business Current Account",
                    "value": 2032929.27,
                    "items": []
                }
            ]
        }
    ]
}
]

```

```

    },
    "liabilities": {
      "accountId": "",
      "name": "Liabilities",
      "value": 216652.54,
      "items": [
        {
          "accountId": "",
          "name": "Current Liabilities",
          "value": 86652.54,
          "items": [
            {
              "accountId": "3a872b81-d1af-4d31-9bfa-
a37280b8f68c",
              "name": "VAT",
              "value": 2325.54,
              "items": []
            },
            {
              "accountId": "d19852a2-e292-4eb9-a909-
9dad95c0e76",
              "name": "Rounding",
              "value": 0,
              "items": []
            },
            {
              "accountId": "9be6382f-6b33-402d-b448-
0db1dbf67a98",
              "name": "Historical Adjustment",
              "value": 4642.44,
              "items": []
            },
            {
              "accountId": "53bf27a7-7497-4c61-9887-
dfaad5c6d80a",
              "name": "Accounts Payable",
              "value": 79315.7,
              "items": []
            },
            {
              "accountId": "8852a857-aa9d-4706-839f-
638e9d6b5a66",
              "name": "Unpaid Expense Claims",
              "value": 0,
              "items": []
            }
          ]
        }
      ]
    }
  }

```

```

        },
        {
          "accountId": "3b58f7ff-fa16-453a-9931-
f020816d76e7",
          "name": "Interest Payables",
          "value": 199.11,
          "items": []
        },
        {
          "accountId": "8636effc-50fb-45ba-8b2b-
18336fa29b6b",
          "name": "John Smith",
          "value": 169.75,
          "items": []
        }
      ]
    },
    {
      "accountId": "",
      "name": "Long Term Liability",
      "value": 130000,
      "items": [
        {
          "accountId": "55008233-40e7-41ac-84af-
2255fa028c2e",
          "name": "Loan",
          "value": 130000,
          "items": []
        }
      ]
    }
  ],
  "netAssets": 2768673.17,
  "equity": {
    "accountId": "",
    "name": "Equity",
    "value": 2768673.16,
    "items": [
      {
        "accountId": "39225d6f-3722-4508-ac3f-
a2f6ec96ad31",
        "name": "Retained Earnings",
        "value": 2739526.61,
        "items": []
      }
    ]
  }
}

```

```

    },
    {
      "accountId": "78828dd9-6008-4662-b43c-
e9d87907fd2b",
      "name": "Current Year Earnings",
      "value": 29146.55,
      "items": []
    }
  ]
},
{
  "date": "2022-01-31T00:00:00",
  "assets": {
    "accountId": "",
    "name": "Assets",
    "value": 2957253.13,
    "items": [
      {
        "accountId": "",
        "name": "Fixed Assets",
        "value": 741150.22,
        "items": [
          {
            "accountId": "724ca578-8b5d-4bdb-ad45-
e3820eee9de9",
            "name": "Office Equipment",
            "value": 341627.29,
            "items": []
          },
          {
            "accountId": "be3eb911-034b-42de-95db-
0d58ac978b7f",
            "name": "Computer Equipment",
            "value": 399522.93,
            "items": []
          }
        ]
      }
    ]
  },
  {
    "accountId": "",
    "name": "Current Assets",
    "value": 2216102.91,
    "items": [
      {

```



```

        "accountId": "1b6266d1-1e44-46c5-8eb5-
a8f98e03124e",
        "name": "Accounts Receivable",
        "value": 560238.47,
        "items": []
    },
    {
        "accountId": "22de1660-d745-4809-a363-
16b134607e66",
        "name": "Prepayments",
        "value": 103580.52,
        "items": []
    },
    {
        "accountId": "",
        "name": "Bank",
        "value": 1552283.92,
        "items": [
            {
                "accountId": "dbcaf288-2b39-4b95-8ab3-
42202ab15918",
                "name": "Business Current Account",
                "value": 1552283.92,
                "items": []
            }
        ]
    }
]
},
"liabilities": {
    "accountId": "",
    "name": "Liabilities",
    "value": 207694.08,
    "items": [
        {
            "accountId": "",
            "name": "Current Liabilities",
            "value": 77694.08,
            "items": [
                {
                    "accountId": "3a872b81-d1af-4d31-9bfa-
a37280b8f68c",
                    "name": "VAT",

```

```

        "value": 1582.27,
        "items": []
      },
      {
        "accountId": "d19852a2-e292-4eb9-a909-
9dad95c0e76",
        "name": "Rounding",
        "value": 0,
        "items": []
      },
      {
        "accountId": "9be6382f-6b33-402d-b448-
0db1dbf67a98",
        "name": "Historical Adjustment",
        "value": 1877.84,
        "items": []
      },
      {
        "accountId": "53bf27a7-7497-4c61-9887-
dfaad5c6d80a",
        "name": "Accounts Payable",
        "value": 74044.43,
        "items": []
      },
      {
        "accountId": "8852a857-aa9d-4706-839f-
638e9d6b5a66",
        "name": "Unpaid Expense Claims",
        "value": 0,
        "items": []
      },
      {
        "accountId": "3b58f7ff-fa16-453a-9931-
f020816d76e7",
        "name": "Interest Payables",
        "value": 139.06,
        "items": []
      },
      {
        "accountId": "8636effc-50fb-45ba-8b2b-
18336fa29b6b",
        "name": "John Smith",
        "value": 50.48,
        "items": []
      }
    }
  }

```

```

    ],
    {
      "accountId": "",
      "name": "Long Term Liability",
      "value": 130000,
      "items": [
        {
          "accountId": "55008233-40e7-41ac-84af-
2255fa028c2e",
          "name": "Loan",
          "value": 130000,
          "items": []
        }
      ]
    }
  ],
  },
  "netAssets": 2749559.05,
  "equity": {
    "accountId": "",
    "name": "Equity",
    "value": 2749559.05,
    "items": [
      {
        "accountId": "39225d6f-3722-4508-ac3f-
a2f6ec96ad31",
        "name": "Retained Earnings",
        "value": 2739526.61,
        "items": []
      },
      {
        "accountId": "78828dd9-6008-4662-b43c-
e9d87907fd2b",
        "name": "Current Year Earnings",
        "value": 10032.44,
        "items": []
      }
    ]
  }
},
  ],
  "mostRecentAvailableMonth": "2022-02-28T00:00:00",
  "earliestAvailableMonth": "2017-03-01T00:00:00"
}

```

Retrieve Profit and Loss Reports

This method is used to extract the customer's Profit and Loss reports in order to determine their creditworthiness. The call is made through the GET `/companies/{companyId}/data/financials/profitAndLoss` Codat endpoint.

Before calling this method, make sure that the [Check Status Data](#) result contains the following parameter response: `"dataType": "profitAndLoss"` with `"currentStatus": "Complete"`.

NOTE

Make sure you include the [authorization header](#) in your API request.

Response Example

```
{
  "reports": [
    {
      "fromDate": "2022-02-01T00:00:00",
      "toDate": "2022-02-28T00:00:00",
      "income": {
        "accountId": "",
        "name": "Income",
        "value": 36576.33,
        "items": [
          {
            "accountId": "72df89d2-512b-4455-af51-a6b563733842",
            "name": "Sales",
            "value": 36576.33,
            "items": []
          }
        ]
      },
      "costOfSales": {
        "accountId": "",
        "name": "Cost of Sales",

```

```

      "value": 973.97,
      "items": [
        {
          "accountId": "7403e960-5b72-42ff-abf4-
c870ad8910bd",
          "name": "Purchases",
          "value": 973.97,
          "items": []
        }
      ]
    },
    "grossProfit": 35602.36,
    "expenses": {
      "accountId": "",
      "name": "Expenses",
      "value": 6955.59,
      "items": [
        {
          "accountId": "868591ad-f9c2-4956-a5ec-
c32c1d48c6f3",
          "name": "Advertising & Marketing",
          "value": 269.05,
          "items": []
        },
        {
          "accountId": "940c8a59-3348-4a0b-a1b1-
781d9f29cc8b",
          "name": "Depreciation Expense",
          "value": 70.97,
          "items": []
        },
        {
          "accountId": "e7ac3baa-cfbe-40c1-a172-
83d22e84435b",
          "name": "Entertainment-100% business",
          "value": 18.06,
          "items": []
        },
        {
          "accountId": "b5e801e8-8dbc-4390-ac99-
3b0fff54a89f",
          "name": "General Expenses",
          "value": 198.6,
          "items": []
        }
      ]
    }
  ],

```

```

    {
      "accountId": "5360066d-1474-49f6-a7a5-
c66d5f6032ba",
      "name": "Light, Power, Heating",
      "value": 134.09,
      "items": []
    },
    {
      "accountId": "138a8eb3-5c08-4e59-a3bc-
892119694447",
      "name": "Motor Vehicle Expenses",
      "value": 431.74,
      "items": []
    },
    {
      "accountId": "1734ff00-2a17-45b4-8db6-
2dc2e832c460",
      "name": "Postage, Freight & Courier",
      "value": 132.89,
      "items": []
    },
    {
      "accountId": "7aa7988a-ff61-4cb8-bef3-
15395355d108",
      "name": "Printing & Stationery",
      "value": 85.13,
      "items": []
    },
    {
      "accountId": "9cbe5fe4-ca60-4792-8bf1-
de01fb7010aa",
      "name": "Rent",
      "value": 600,
      "items": []
    },
    {
      "accountId": "04f7111b-55d4-4efc-b329-
1bd5c791933a",
      "name": "Repairs & Maintenance",
      "value": 47.73,
      "items": []
    },
    {
      "accountId": "7d8d0322-f452-47de-a8e8-
54b0130e6f38",

```

```

        "name": "Subscriptions",
        "value": 45.86,
        "items": []
      },
      {
        "accountId": "043b6bcb-dfe6-4c97-9b4c-f9b300fe3f03",
        "name": "Telephone & Internet",
        "value": 45,
        "items": []
      },
      {
        "accountId": "df62060b-41cc-4bf2-9de7-c7e537b5663a",
        "name": "Travel - National",
        "value": 55.28,
        "items": []
      },
      {
        "accountId": "eef78ed1-dfed-447c-bdba-3a49fb2c044b",
        "name": "Audit & Accountancy fees",
        "value": 0,
        "items": []
      },
      {
        "accountId": "f3aa84fe-5c31-4107-b207-7e0419f636d7",
        "name": "Bank Fees",
        "value": 6.29,
        "items": []
      },
      {
        "accountId": "c16f5c35-8283-47da-9d09-5fecb183b0cb",
        "name": "Cleaning",
        "value": 120,
        "items": []
      },
      {
        "accountId": "fb3210ef-edeb-48af-bb49-b85d40c1e6bb",
        "name": "Corporation Tax",
        "value": 124.61,
        "items": []
      }
    ]
  }

```

```

    },
    {
      "accountId": "7f6a0e92-65be-4333-9a0a-
d981b03bedd1",
      "name": "Wages",
      "value": 4373.14,
      "items": []
    },
    {
      "accountId": "e8a0a24e-2dab-46b1-bfe1-
6e92551c04e8",
      "name": "Purchase Discounts",
      "value": 171.55,
      "items": []
    },
    {
      "accountId": "4378ddba-36b4-4b35-9970-
bd972b20d137",
      "name": "Amortization",
      "value": 5.72,
      "items": []
    },
    {
      "accountId": "78785fd7-f197-4c34-aa17-
6e76b9255d34",
      "name": "Interest Paid (operating)",
      "value": 19.88,
      "items": []
    }
  ]
},
"netOperatingProfit": 28646.77,
"otherExpenses": {
  "accountId": "b5e801e8-8dbc-4390-ac99-3b0fff54a89f",
  "name": "Other Expenses",
  "value": 350.44,
  "items": []
},
"otherIncome": {
  "accountId": "68794a8f-b22d-4520-b97b-025b7cb10f94",
  "name": "Other Income",
  "value": 850.22,
  "items": []
},
"netOtherIncome": 499.78,

```



```

        "netProfit": 29146.55
      }
    ],
    "reportBasis": "Unknown",
    "currency": "GBP",
    "mostRecentAvailableMonth": "2022-02-01T00:00:00",
    "earliestAvailableMonth": "2017-03-01T00:00:00"
  }

```

Retrieve Enhanced Profit and Loss Reports

This method is used to extract the customer's Enhanced Profit and Loss reports in order to determine their creditworthiness. The call is made through the GET `/data/companies{companyId}/connections/{connectionId}/assess/enhancedProfitandLoss` Codat endpoint.

Before calling this method, make sure that the [Check Status Data](#) result contains the following parameter response: `"dataType": "profitAndLoss"` with `"currentStatus": "Complete"`.

NOTE

Make sure you include the [authorization header](#) in your API request.

Response Example

```

{
  "reports": [
    {
      "fromDate": "2022-02-01T00:00:00",
      "toDate": "2022-02-28T00:00:00",
      "income": {
        "accountId": "",

```

```

      "name": "Income",
      "value": 36576.33,
      "items": [
        {
          "accountId": "72df89d2-512b-4455-af51-
a6b563733842",
          "name": "Sales",
          "value": 36576.33,
          "items": []
        }
      ]
    },
    "costOfSales": {
      "accountId": "",
      "name": "Cost of Sales",
      "value": 973.97,
      "items": [
        {
          "accountId": "7403e960-5b72-42ff-abf4-
c870ad8910bd",
          "name": "Purchases",
          "value": 973.97,
          "items": []
        }
      ]
    },
    "grossProfit": 35602.36,
    "expenses": {
      "accountId": "",
      "name": "Expenses",
      "value": 6955.59,
      "items": [
        {
          "accountId": "868591ad-f9c2-4956-a5ec-
c32c1d48c6f3",
          "name": "Advertising & Marketing",
          "value": 269.05,
          "items": []
        },
        {
          "accountId": "940c8a59-3348-4a0b-a1b1-
781d9f29cc8b",
          "name": "Depreciation Expense",
          "value": 70.97,
          "items": []
        }
      ]
    }
  }
}

```

```

    },
    {
      "accountId": "e7ac3baa-cfbe-40c1-a172-83d22e84435b",
      "name": "Entertainment-100% business",
      "value": 18.06,
      "items": []
    },
    {
      "accountId": "b5e801e8-8dbc-4390-ac99-3b0fff54a89f",
      "name": "General Expenses",
      "value": 198.6,
      "items": []
    },
    {
      "accountId": "5360066d-1474-49f6-a7a5-c66d5f6032ba",
      "name": "Light, Power, Heating",
      "value": 134.09,
      "items": []
    },
    {
      "accountId": "138a8eb3-5c08-4e59-a3bc-892119694447",
      "name": "Motor Vehicle Expenses",
      "value": 431.74,
      "items": []
    },
    {
      "accountId": "1734ff00-2a17-45b4-8db6-2dc2e832c460",
      "name": "Postage, Freight & Courier",
      "value": 132.89,
      "items": []
    },
    {
      "accountId": "7aa7988a-ff61-4cb8-bef3-15395355d108",
      "name": "Printing & Stationery",
      "value": 85.13,
      "items": []
    },
    {

```

```

        "accountId": "9cbe5fe4-ca60-4792-8bf1-
de01fb7010aa",
        "name": "Rent",
        "value": 600,
        "items": []
    },
    {
        "accountId": "04f7111b-55d4-4efc-b329-
1bd5c791933a",
        "name": "Repairs & Maintenance",
        "value": 47.73,
        "items": []
    },
    {
        "accountId": "7d8d0322-f452-47de-a8e8-
54b0130e6f38",
        "name": "Subscriptions",
        "value": 45.86,
        "items": []
    },
    {
        "accountId": "043b6bcb-dfe6-4c97-9b4c-
f9b300fe3f03",
        "name": "Telephone & Internet",
        "value": 45,
        "items": []
    },
    {
        "accountId": "df62060b-41cc-4bf2-9de7-
c7e537b5663a",
        "name": "Travel - National",
        "value": 55.28,
        "items": []
    },
    {
        "accountId": "eef78ed1-dfed-447c-bdba-
3a49fb2c044b",
        "name": "Audit & Accountancy fees",
        "value": 0,
        "items": []
    },
    {
        "accountId": "f3aa84fe-5c31-4107-b207-
7e0419f636d7",
        "name": "Bank Fees",

```

```

        "value": 6.29,
        "items": [],
      },
      {
        "accountId": "c16f5c35-8283-47da-9d09-5fecb183b0cb",
        "name": "Cleaning",
        "value": 120,
        "items": [],
      },
      {
        "accountId": "fb3210ef-edeb-48af-bb49-b85d40c1e6bb",
        "name": "Corporation Tax",
        "value": 124.61,
        "items": [],
      },
      {
        "accountId": "7f6a0e92-65be-4333-9a0a-d981b03bedd1",
        "name": "Wages",
        "value": 4373.14,
        "items": [],
      },
      {
        "accountId": "e8a0a24e-2dab-46b1-bfe1-6e92551c04e8",
        "name": "Purchase Discounts",
        "value": 171.55,
        "items": [],
      },
      {
        "accountId": "4378ddba-36b4-4b35-9970-bd972b20d137",
        "name": "Amortization",
        "value": 5.72,
        "items": [],
      },
      {
        "accountId": "78785fd7-f197-4c34-aa17-6e76b9255d34",
        "name": "Interest Paid (operating)",
        "value": 19.88,
        "items": []
      }
    ]
  }

```

```

    ],
    "netOperatingProfit": 28646.77,
    "otherExpenses": {
      "accountId": "b5e801e8-8dbc-4390-ac99-3b0fff54a89f",
      "name": "Other Expenses",
      "value": 350.44,
      "items": []
    },
    "otherIncome": {
      "accountId": "68794a8f-b22d-4520-b97b-025b7cb10f94",
      "name": "Other Income",
      "value": 850.22,
      "items": []
    },
    "netOtherIncome": 499.78,
    "netProfit": 29146.55
  }
],
"reportBasis": "Unknown",
"currency": "GBP",
"mostRecentAvailableMonth": "2022-02-01T00:00:00",
"earliestAvailableMonth": "2017-03-01T00:00:00"
}

```

Retrieve Cash Flow Statements

This method is used to extract the customer's cash flow statements and have access to trustful financial information. The call is made through the GET `/companies/{companyId}/data/financials/cashFlowStatement` Codat endpoint.

Before calling this method, make sure that the [Check Status Data](#) result contains the following parameter response: `"dataType": "cashFlowStatement"` with `"currentStatus": "Complete"`

NOTE

Make sure you include the [authorization header](#) in your API request.

Response Example

```
{
  "reports": [
    {
      "fromDate": "2021-02-01T00:00:00",
      "toDate": "2021-02-28T00:00:00",
      "cashReceipts": {
        "accountId": "cashReceipts",
        "name": "Cash Receipts",
        "value": 18377.72,
        "items": [
          {
            "accountId": "1b6266d1-1e44-46c5-8eb5-a8f98e03124e",
            "name": "Accounts Receivable",
            "value": 11417.63,
            "items": []
          },
          {
            "accountId": "72df89d2-512b-4455-af51-a6b563733842",
            "name": "Income",
            "value": 6960.09,
            "items": []
          },
          {
            "accountId": "68794a8f-b22d-4520-b97b-025b7cb10f94",
            "name": "Other Income",
            "value": 0,
            "items": []
          }
        ]
      },
      "cashPayments": {
        "accountId": "cashPayments",
        "name": "Cash Payments",
        "value": 12377.81,
        "items": [
          {
            "accountId": "53bf27a7-7497-4c61-9887-dfaad5c6d80a",
            "name": "Accounts Payable",
            "value": 7479.21,

```

```

        "items": [],
      },
      {
        "accountId": "7403e960-5b72-42ff-abf4-
c870ad8910bd",
        "name": "Cost of Sales",
        "value": 700,
        "items": []
      },
      {
        "accountId": "e6f7e297-59d6-4bd5-9353-
478ee9b39685",
        "name": "Expenses",
        "value": 4198.6,
        "items": []
      },
      {
        "accountId": "b5e801e8-8dbc-4390-ac99-
3b0fff54a89f",
        "name": "Other Expenses",
        "value": 0,
        "items": []
      }
    ]
  },
  "reportBasis": "Cash",
  "reportInput": "Direct",
  "currency": "GBP",
  "mostRecentAvailableMonth": "2021-02-28T00:00:00",
  "earliestAvailableMonth": "2019-03-01T00:00:00"
}

```

Retrieve Company Connections

This method is used to retrieve all data sources connected to a single company, including their connection statuses. The call is made through the GET `/companies/{client_id}/connections` Codat endpoint.

NOTE

Make sure you include the [authorization header](#) in your API request.

Response Example

```
{
  "results": [
    {
      "id": "c770be55-d2fa-4c50-bf99-616e981588ad",
      "integrationId": "9e0cc03b-3868-4543-98c0-568f0f1b12a3",
      "sourceId": "aff0f057-255f-42c4-8d4a-ae23b43e1615",
      "platformName": "Sandbox",
      "linkUrl": "https://link-api.codat.io/companies/4a495b2c-cf23-46f3-b856-83f344d150c7/connections/c770be55-d2fa-4c50-bf99-616e981588ad/start",
      "status": "Linked",
      "lastSync": "2022-03-16T10:55:37.3526128Z",
      "created": "2022-03-16T10:51:00Z",
      "sourceType": "Accounting"
    },
    {
      "id": "c783736f-06ca-4fbd-b4b1-eb7764684e9d",
      "integrationId": "b27611c5-c104-4360-b979-e8f6b16db164",
      "sourceId": "fac84d06-5a70-4e9e-bf46-7607e647b036",
      "platformName": "Commerce Sandbox",
      "linkUrl": "https://link-api.codat.io/companies/4a495b2c-cf23-46f3-b856-83f344d150c7/connections/c783736f-06ca-4fbd-b4b1-eb7764684e9d/start",
      "status": "Linked",
      "lastSync": "2022-03-18T08:36:42.6362661Z",
      "created": "2022-03-16T11:09:17Z",
      "sourceType": "Commerce"
    }
  ]
}
```

Retrieve Accounts Categorization

The chart of accounts defines the financial structure of a company by providing a list of all accounts used in the company's general ledger. With this feature customers can categorize transactions into SME standard account types, such as:

- Assets
- Liabilities
- Income
- Expenses

This method is used to extract the customer's exact account categories that can be mapped to a customized company's general ledger.

The call is made through the `GET /data/companies/{companyId}/connections/{connectionId}/assess/accounts/categories` Codat endpoint.

NOTE

Make sure you include the [authorization header](#) in your API request.

Response Example

```
[
  {
    "type": "Asset",
    "subtype": "Current",
    "subtypeDisplayName": "Current assets",
    "detailType": "Cash",
    "detailTypeDisplayName": "Cash",
    "detailTypeDescription": "Use 'Cash' for cash in the bank or held on premise. This should include overdrawn accounts."
```

```

    },
    {
      "type": "Asset",
      "subtype": "Current",
      "subtypeDisplayName": "Current assets",
      "detailType": "CashEquivalents",
      "detailTypeDisplayName": "Cash equivalents",
      "detailTypeDescription": "Use 'Cash equivalents' for
assets which can be converted to cash quickly including
marketable securities."
    },
    {
      "type": "Asset",
      "subtype": "Current",
      "subtypeDisplayName": "Current assets",
      "detailType": "CashAndEquivalents",
      "detailTypeDisplayName": "Cash and equivalents",
      "detailTypeDescription": "Use 'Cash and equivalents' for
accounts which record cash and cash equivalents together in
a single account."
    },
    {
      "type": "Asset",
      "subtype": "Current",
      "subtypeDisplayName": "Current assets",
      "detailType": "RestrictedCash",
      "detailTypeDisplayName": "Restricted cash",
      "detailTypeDescription": "Use 'Restricted cash' for
money that is held for a specific purpose and thus not
available to the company for immediate or general business
use."
    },
    {
      "type": "Asset",
      "subtype": "Current",
      "subtypeDisplayName": "Current assets",
      "detailType": "AccountsReceivable",
      "detailTypeDisplayName": "Accounts receivable",
      "detailTypeDescription": "Use 'Accounts receivable' or
trade debtors for money that is outstanding from your
customers that you expect to receive within 12 months.If the
monies owed are not in relation to trade, assign to 'Other
current assets'"
    },
  ],
  {

```

```

    "type": "Asset",
    "subtype": "Current",
    "subtypeDisplayName": "Current assets",
    "detailType": "InventoryMerchandise",
    "detailTypeDisplayName": "Inventory - merchandise",
    "detailTypeDescription": "Use 'Inventory - merchandise'
for merchandise purchased in a complete form but not yet
sold to customers."
  },
  {
    "type": "Asset",
    "subtype": "Current",
    "subtypeDisplayName": "Current assets",
    "detailType": "InventoryFinishedGoods",
    "detailTypeDisplayName": "Inventory - finished goods",
    "detailTypeDescription": "Use 'Inventory - finished
goods' for goods which have been completed by the
manufacturing process."
  },
  {
    "type": "Asset",
    "subtype": "Current",
    "subtypeDisplayName": "Current assets",
    "detailType": "AccruedRevenue",
    "detailTypeDisplayName": "Accrued revenue",
    "detailTypeDescription": "Use 'Accrued revenue' for
revenue that has been earned but not yet invoiced to
customers. This should only include income you expect to
receive within 12 months."
  },
  {
    "type": "Asset",
    "subtype": "Current",
    "subtypeDisplayName": "Current assets",
    "detailType": "RestrictedInvestments",
    "detailTypeDisplayName": "Restricted investments",
    "detailTypeDescription": "Use 'Restricted investments'
for any investments that is not available to the company for
immediate or general business use."
  },
  {
    "type": "Asset",
    "subtype": "Current",
    "subtypeDisplayName": "Current assets",
    "detailType": "OtherInventory",

```

```

        "detailTypeDisplayName": "Other inventory",
        "detailTypeDescription": "Use 'Other inventory' for all
other types of inventory."
    },
    {
        "type": "Asset",
        "subtype": "Current",
        "subtypeDisplayName": "Current assets",
        "detailType": "InventoryRawMaterials",
        "detailTypeDisplayName": "Inventory - raw materials",
        "detailTypeDescription": "Use 'Inventory - raw
materials' for all component parts currently in stock that
have not yet been used in work-in-process or finished goods
production."
    },
    {
        "type": "Asset",
        "subtype": "Current",
        "subtypeDisplayName": "Current assets",
        "detailType": "InventoryWorkInProgress",
        "detailTypeDisplayName": "Inventory - work in process",
        "detailTypeDescription": "Use 'Inventory - work in
process' for materials currently on hand that have been
partially completed/alterd through the production process
and are not in resaleable condition."
    },
    {
        "type": "Asset",
        "subtype": "Current",
        "subtypeDisplayName": "Current assets",
        "detailType": "PrepaidExpenses",
        "detailTypeDisplayName": "Prepaid expenses",
        "detailTypeDescription": "Use 'Prepaid expenses' for
goods or services you have already paid for and you are due
to receive within 12 months."
    },
    {
        "type": "Asset",
        "subtype": "Current",
        "subtypeDisplayName": "Current assets",
        "detailType": "DeferredExpenses",
        "detailTypeDisplayName": "Deferred expenses"
    },
    {
        "type": "Asset",

```

```

    "subtype": "Current",
    "subtypeDisplayName": "Current assets",
    "detailType": "OtherCurrentAssets",
    "detailTypeDisplayName": "Other current assets",
    "detailTypeDescription": "Use 'Other current assets' for
all other assets you are due to receive within 12 months."
  },
  {
    "type": "Asset",
    "subtype": "Current",
    "subtypeDisplayName": "Current assets",
    "detailType": "UndepositedFunds",
    "detailTypeDisplayName": "Undeposited funds",
    "detailTypeDescription": "Use 'Undeposited funds' for
any money held but not yet deposited to a bank account."
  },
  {
    "type": "Asset",
    "subtype": "Current",
    "subtypeDisplayName": "Current assets",
    "detailType": "NotesLoansReceivable",
    "detailTypeDisplayName": "Notes and loans receivable",
    "detailTypeDescription": "Use 'Notes and loans
receivable' for money owed to you by other parties that you
expect to collect within 12 months."
  },
  {
    "type": "Asset",
    "subtype": "Current",
    "subtypeDisplayName": "Current assets",
    "detailType": "DueFromEmployees",
    "detailTypeDisplayName": "Due from employees",
    "detailTypeDescription": "Use 'Due from employees' for
money owed to you by your employees, due within 12 months."
  },
  {
    "type": "Asset",
    "subtype": "Current",
    "subtypeDisplayName": "Current assets",
    "detailType": "DueFromOfficersStockholders",
    "detailTypeDisplayName": "Due from officers and
stockholders",
    "detailTypeDescription": "Use 'Due from officers or
stockholders' for money owed to you by officers, directors
or stockholders, due within 12 months."
  }

```

```

    },
    {
      "type": "Asset",
      "subtype": "Current",
      "subtypeDisplayName": "Current assets",
      "detailType": "DueFromAffiliates",
      "detailTypeDisplayName": "Due from affiliates"
    },
    {
      "type": "Asset",
      "subtype": "Current",
      "subtypeDisplayName": "Current assets",
      "detailType": "DueFromJointVentures",
      "detailTypeDisplayName": "Due from joint ventures"
    },
    {
      "type": "Asset",
      "subtype": "Current",
      "subtypeDisplayName": "Current assets",
      "detailType": "AllowanceDoubtfulAccounts",
      "detailTypeDisplayName": "Allowance for doubtful
accounts",
      "detailTypeDescription": "Use 'Allowance for doubtful
accounts' for money that is owed to you but you expect you
will not be able to collect."
    },
    {
      "type": "Asset",
      "subtype": "Current",
      "subtypeDisplayName": "Current assets",
      "detailType": "DueFromRelatedParties",
      "detailTypeDisplayName": "Due from related parties",
      "detailTypeDescription": "Use 'Due from related parties'
for money owed to you by entities under the same business
group, by joint ventures or internal stakeholders, due
within 12 months."
    },
    {
      "type": "Asset",
      "subtype": "NonCurrent",
      "subtypeDisplayName": "Non-current assets",
      "detailType": "FixturesFittings",
      "detailTypeDisplayName": "Fixtures and fittings",

```

```

    "detailTypeDescription": "Use 'Fixtures and fittings'
    for accounts that record the value of any furniture and
    fixtures your business owns and uses."
  },
  {
    "type": "Asset",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current assets",
    "detailType": "EquipmentMachinery",
    "detailTypeDisplayName": "Equipment and machinery",
    "detailTypeDescription": "Use 'Equipment and machinery'
    for equipment that is considered more permanent and longer
    lasting than supplies that are used up quickly. This can
    include machinery, computers, vehicles, electronic devices
    and kitchen appliances."
  },
  {
    "type": "Asset",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current assets",
    "detailType": "LandBuildings",
    "detailTypeDisplayName": "Land and buildings",
    "detailTypeDescription": "Use 'Land and buildings' for
    accounts that represent land that is not depreciated and the
    value of structures you own and use for your business. This
    should not include property and land that are for personal
    use."
  },
  {
    "type": "Asset",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current assets",
    "detailType": "LandBuildingsImprovements",
    "detailTypeDisplayName": "Land and buildings
    improvements",
    "detailTypeDescription": "Use 'land and buildings
    improvements' to track improvements made to land or
    buildings that increase the value of assets recorded in the
    'Land and buildings' category."
  },
  {
    "type": "Asset",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current assets",
    "detailType": "OtherTangibleAssets",
    "detailTypeDisplayName": "Other tangible assets",

```



```

    "detailTypeDescription": "Use 'Other tangible assets'
    for all other fixed or tangible assets you are due to
    receive in over 12 months."
  },
  {
    "type": "Asset",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current assets",
    "detailType": "CapitalLeases",
    "detailTypeDisplayName": "Capital leases"
  },
  {
    "type": "Asset",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current assets",
    "detailType": "AssetsUnderConstruction",
    "detailTypeDisplayName": "Assets under construction",
    "detailTypeDescription": "Use 'Assets under
    construction' for any fixed assets which have not yet been
    completed."
  },
  {
    "type": "Asset",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current assets",
    "detailType": "AccumulatedDepletion",
    "detailTypeDisplayName": "Accumulated depletion",
    "detailTypeDescription": "Use 'Accumulated depreciation'
    for accounts which represent the total cost of extracting
    natural resources such as timber, minerals and oil from the
    earth."
  },
  {
    "type": "Asset",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current assets",
    "detailType": "AccumulatedDepreciation",
    "detailTypeDisplayName": "Accumulated depreciation",
    "detailTypeDescription": "Use 'Accumulated depreciation'
    for accounts which represent the total loss in the value of
    a fixed asset over its useful lifetime."
  },
  {
    "type": "Asset",
    "subtype": "NonCurrent",

```

```

    "subtypeDisplayName": "Non-current assets",
    "detailType": "RevaluationImpairment",
    "detailTypeDisplayName": "Revaluation and impairment",
    "detailTypeDescription": "Use 'Revaluation and
impairment' to track increases or decreases to the value of
an asset to ensure the fair market value of that asset is
represented."
  },
  {
    "type": "Asset",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current assets",
    "detailType": "PrepaidExpenses",
    "detailTypeDisplayName": "Prepaid expenses",
    "detailTypeDescription": "Use 'Prepaid expenses' for
goods or services you have already paid for and you are due
to receive in over 12 months."
  },
  {
    "type": "Asset",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current assets",
    "detailType": "DeferredExpenses",
    "detailTypeDisplayName": "Deferred expenses"
  },
  {
    "type": "Asset",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current assets",
    "detailType": "OtherInvestments",
    "detailTypeDisplayName": "Other investments",
    "detailTypeDescription": "Use 'Other investments' for
all other investments you are due to receive in over 12
months."
  },
  {
    "type": "Asset",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current assets",
    "detailType": "OtherNonCurrentAssets",
    "detailTypeDisplayName": "Other non-current assets",
    "detailTypeDescription": "Use 'Other non-current assets'
for all other assets you are due to receive in over 12
months."
  },
  },

```

```

{
  "type": "Asset",
  "subtype": "NonCurrent",
  "subtypeDisplayName": "Non-current assets",
  "detailType": "DueFromEmployees",
  "detailTypeDisplayName": "Due from employees",
  "detailTypeDescription": "Use 'Due from employees' for
money owed to you by your employees, due in over 12 months."
},
{
  "type": "Asset",
  "subtype": "NonCurrent",
  "subtypeDisplayName": "Non-current assets",
  "detailType": "DueFromOfficersStockholders",
  "detailTypeDisplayName": "Due from officers and
stockholders",
  "detailTypeDescription": "Use 'Due from officers or
stockholders' for money owed to you by officers, directors
or stockholders, due in over 12 months."
},
{
  "type": "Asset",
  "subtype": "NonCurrent",
  "subtypeDisplayName": "Non-current assets",
  "detailType": "DueFromAffiliates",
  "detailTypeDisplayName": "Due from affiliates",
  "detailTypeDescription": "Use 'Due from affiliates' for
money owed to you by entities in the same business group,
due in over 12 months."
},
{
  "type": "Asset",
  "subtype": "NonCurrent",
  "subtypeDisplayName": "Non-current assets",
  "detailType": "DueFromJointVentures",
  "detailTypeDisplayName": "Due from joint ventures",
  "detailTypeDescription": "Use 'Due from joint ventures'
for money owed to you by entities for which you are engaged
in a joint venture, due in over 12 months."
},
{
  "type": "Asset",
  "subtype": "NonCurrent",
  "subtypeDisplayName": "Non-current assets",
  "detailType": "DueFromRelatedParties",

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        "detailTypeDisplayName": "Due from related parties",
        "detailTypeDescription": "Use 'Due from related parties'
for money owed to you by entities under the same business
group, by joint ventures or internal stakeholders, due in
over 12 months."
    },
    {
        "type": "Asset",
        "subtype": "NonCurrent",
        "subtypeDisplayName": "Non-current assets",
        "detailType": "Goodwill",
        "detailTypeDisplayName": "Goodwill",
        "detailTypeDescription": "Use 'Goodwill' for amounts in
excess of the net fair value of assets purchased in an
acquisition and any liability assumed during the process."
    },
    {
        "type": "Asset",
        "subtype": "NonCurrent",
        "subtypeDisplayName": "Non-current assets",
        "detailType": "AcquisitionsInProgress",
        "detailTypeDisplayName": "Acquisitions in progress"
    },
    {
        "type": "Asset",
        "subtype": "NonCurrent",
        "subtypeDisplayName": "Non-current assets",
        "detailType": "IntangibleAssets",
        "detailTypeDisplayName": "Intangible assets",
        "detailTypeDescription": "Use 'Intangible assets' for
non-physical assets, such as patents and copyrights but
excluding goodwill."
    },
    {
        "type": "Asset",
        "subtype": "NonCurrent",
        "subtypeDisplayName": "Non-current assets",
        "detailType": "AccumulatedAmortization",
        "detailTypeDisplayName": "Accumulated amortization",
        "detailTypeDescription": "Use 'Accumulated amortization'
for accounts which represent the total loss in the value of
an intangible asset over its useful lifetime."
    },
    {
        "type": "Equity",

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    "subtype": "Equity",
    "subtypeDisplayName": "Equity",
    "detailType": "PreferredStock",
    "detailTypeDisplayName": "Preferred stock"
  },
  {
    "type": "Equity",
    "subtype": "Equity",
    "subtypeDisplayName": "Equity",
    "detailType": "OwnersEquity",
    "detailTypeDisplayName": "Owner's equity",
    "detailTypeDescription": "Use 'Owners equity' to
represent the owner's ownership in the business, that is,
the value of the business assets owned by the business
owner."
  },
  {
    "type": "Equity",
    "subtype": "Equity",
    "subtypeDisplayName": "Equity",
    "detailType": "CommonStock",
    "detailTypeDisplayName": "Common stock",
    "detailTypeDescription": "Use 'Common stock' to track
shares of its common stock held by shareholders. This
account should represent the stated (or par) value of the
stock."
  },
  {
    "type": "Equity",
    "subtype": "Equity",
    "subtypeDisplayName": "Equity",
    "detailType": "PaidInCapital",
    "detailTypeDisplayName": "Paid-in capital",
    "detailTypeDescription": "Use 'Paid-in capital' to
represent the full amount of cash or other assets that
shareholders have given a company in exchange for stock."
  },
  {
    "type": "Equity",
    "subtype": "Equity",
    "subtypeDisplayName": "Equity",
    "detailType": "AdditionalPaidInCapital",
    "detailTypeDisplayName": "Additional paid-in capital",

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    "detailTypeDescription": "Use 'Additional paid-in capital' to represent the difference between the par value of a stock and the price that investors actually pay for it."
  },
  {
    "type": "Equity",
    "subtype": "Equity",
    "subtypeDisplayName": "Equity",
    "detailType": "OwnersContributions",
    "detailTypeDisplayName": "Owner's contributions",
    "detailTypeDescription": "Use 'Owners contributions' to represent the amount of initial money the business owner contributed to the company as well as owner contributions made after the initial start-up."
  },
  {
    "type": "Equity",
    "subtype": "Equity",
    "subtypeDisplayName": "Equity",
    "detailType": "CashFlowHedges",
    "detailTypeDisplayName": "Cash flow hedges",
    "detailTypeDescription": "Use 'Owners contributions' to represent the amount of initial money the business owner contributed to the company as well as owner contributions made after the initial start-up."
  },
  {
    "type": "Equity",
    "subtype": "Equity",
    "subtypeDisplayName": "Equity",
    "detailType": "OtherComprehensiveIncome",
    "detailTypeDisplayName": "Other comprehensive income",
    "detailTypeDescription": "Use 'Other comprehensive income' to represent revenues, expenses, gains, and losses that have yet to be realized."
  },
  {
    "type": "Equity",
    "subtype": "Equity",
    "subtypeDisplayName": "Equity",
    "detailType": "EmployeeStockOwnershipPlan",
    "detailTypeDisplayName": "Employee stock ownership plan",

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    "detailTypeDescription": "Use 'Employee stock ownership'
to represent the portion of stock afforded to employees,
typically acquired under share option schemes."
  },
  {
    "type": "Equity",
    "subtype": "Equity",
    "subtypeDisplayName": "Equity",
    "detailType": "OtherEquity",
    "detailTypeDisplayName": "Other equity",
    "detailTypeDescription": "Use 'Other equity' for all
other forms of equity."
  },
  {
    "type": "Equity",
    "subtype": "Equity",
    "subtypeDisplayName": "Equity",
    "detailType": "TreasuryStock",
    "detailTypeDisplayName": "Treasury stock",
    "detailTypeDescription": "Use 'Treasury stock' for
accounts that track amounts paid by the company to buy its
own stock back from shareholders."
  },
  {
    "type": "Equity",
    "subtype": "Equity",
    "subtypeDisplayName": "Equity",
    "detailType": "Drawings",
    "detailTypeDisplayName": "Drawings",
    "detailTypeDescription": "Use 'Drawings' for money
withdrawn by/paid to directors/officers. For payroll type
payments to directors, use 'Director's compensation' expense
account."
  },
  {
    "type": "Equity",
    "subtype": "Equity",
    "subtypeDisplayName": "Equity",
    "detailType": "EquityNonControllingInterest",
    "detailTypeDisplayName": "Equity non-controlling
interest",
    "detailTypeDescription": "Use 'Equity non-controlling
interest' to represent equity held in other entities for
which the company has a minority interest, meaning, they
owner less than 50% of the stock of the company and
therefore do not have control over decisions."
  }

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    },
    {
      "type": "Equity",
      "subtype": "Equity",
      "subtypeDisplayName": "Equity",
      "detailType": "Dividends",
      "detailTypeDisplayName": "Dividends",
      "detailTypeDescription": "Use 'Dividends' to represent
the portion of retained earnings that have been paid out to
stockholders. This can sometimes be accounted for in the
same account as 'Retained earnings'."
    },
    {
      "type": "Equity",
      "subtype": "Equity",
      "subtypeDisplayName": "Equity",
      "detailType": "OtherCapital",
      "detailTypeDisplayName": "Other capital",
      "detailTypeDescription": "Use 'Other capital' to track
all other types of capital."
    },
    {
      "type": "Equity",
      "subtype": "Equity",
      "subtypeDisplayName": "Equity",
      "detailType": "FxTranslation",
      "detailTypeDisplayName": "FX Translation",
      "detailTypeDescription": "Use 'FX Translation' for
accounts that convert the results of a parent company's
foreign subsidiaries to its reporting currency."
    },
    {
      "type": "Equity",
      "subtype": "Equity",
      "subtypeDisplayName": "Equity",
      "detailType": "OpeningBalance",
      "detailTypeDisplayName": "Opening balance"
    },
    {
      "type": "Equity",
      "subtype": "Equity",
      "subtypeDisplayName": "Equity",
      "detailType": "RetainedEarnings",
      "detailTypeDisplayName": "Retained earnings"
    }
  ],

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{
  "type": "Equity",
  "subtype": "Equity",
  "subtypeDisplayName": "Equity",
  "detailType": "CapitalIncomeReserve",
  "detailTypeDisplayName": "Capital and revenue reserve"
},
{
  "type": "Equity",
  "subtype": "Equity",
  "subtypeDisplayName": "Equity",
  "detailType": "OtherAdjustments",
  "detailTypeDisplayName": "Other adjustments",
  "detailTypeDescription": "Use 'Other adjustments' to
track adjustments to owner's equity that are not
attributable to net income."
},
{
  "type": "Expense",
  "subtype": "Operating",
  "subtypeDisplayName": "Operating",
  "detailType": "SalesMarketing",
  "detailTypeDisplayName": "Selling and marketing"
},
{
  "type": "Expense",
  "subtype": "Operating",
  "subtypeDisplayName": "Operating",
  "detailType": "Selling",
  "detailTypeDisplayName": "Selling"
},
{
  "type": "Expense",
  "subtype": "Operating",
  "subtypeDisplayName": "Operating",
  "detailType": "Marketing",
  "detailTypeDisplayName": "Marketing"
},
{
  "type": "Expense",
  "subtype": "Operating",
  "subtypeDisplayName": "Operating",
  "detailType": "Entertainment",
  "detailTypeDisplayName": "Entertainment"
},
},

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{
  "type": "Expense",
  "subtype": "Operating",
  "subtypeDisplayName": "Operating",
  "detailType": "BadDebtDoubtfulAccounts",
  "detailTypeDisplayName": "Bad debts and doubtful
accounts",
  "detailTypeDescription": "Use 'Bad debts and doubtful
accounts' for debts you have written off."
},
{
  "type": "Expense",
  "subtype": "Operating",
  "subtypeDisplayName": "Operating",
  "detailType": "GeneralAdministrative",
  "detailTypeDisplayName": "General and Administrative",
  "detailTypeDescription": "Use 'General and
administrative' for other day-to-day costs incurred in order
to operate, such as utilities, professional fees and office
supplies."
},
{
  "type": "Expense",
  "subtype": "Operating",
  "subtypeDisplayName": "Operating",
  "detailType": "Distribution",
  "detailTypeDisplayName": "Distribution",
  "detailTypeDescription": "Use 'Distribution' for the
cost of storage and transporting of goods. This can include
vehicle, shipping and warehouse costs. Use 'Manufacturing
and distribution' under Cost of sales for costs directly
attributable to the sale of goods/services."
},
{
  "type": "Expense",
  "subtype": "Operating",
  "subtypeDisplayName": "Operating",
  "detailType": "SubscriptionFees",
  "detailTypeDisplayName": "Subscription fees",
  "detailTypeDescription": "Use 'Subscription fees' for
expenses incurred by the business in relation to
subscriptions, such as software and newspapers."
},
{
  "type": "Expense",

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    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "OtherOperatingExpenses",
    "detailTypeDisplayName": "Other operating expenses",
    "detailTypeDescription": "Use 'Other operating expenses'
for all other expenses which do not fit into one of the
operating expense categories."
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "RepairsMaintenance",
    "detailTypeDisplayName": "Repairs and maintenance"
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "Travel",
    "detailTypeDisplayName": "Travel"
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "OtherEmployeeBenefits",
    "detailTypeDisplayName": "Other employee benefits"
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "EmployeeWages",
    "detailTypeDisplayName": "Employee wages"
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "BuildingRentLease",
    "detailTypeDisplayName": "Buildings rent and lease"
  },
  {
    "type": "Expense",

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    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "EquipmentRentLease",
    "detailTypeDisplayName": "Equipment rent and lease"
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "BankCharges",
    "detailTypeDisplayName": "Bank charges"
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "PaymentProcessingFees",
    "detailTypeDisplayName": "Payment processing fees"
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "ManagementFees",
    "detailTypeDisplayName": "Management fees"
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "PropertyMaintenance",
    "detailTypeDisplayName": "Property and maintenance"
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "ServiceChargeGroundRent",
    "detailTypeDisplayName": "Service charge and ground
rent"
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",

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    "detailType": "DirectorsCompensation",
    "detailTypeDisplayName": "Director's compensation",
    "detailTypeDescription": "Use 'Directors compensation'
for wages/salaries and bonuses afforded to
directors/officers of the business."
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "EmployeeTax",
    "detailTypeDisplayName": "Employee tax"
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "Pension",
    "detailTypeDisplayName": "Pension",
    "detailTypeDescription": "Use 'Pension' for expenses
that represent money paid in for employee pensions."
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "DepreciationDepletion",
    "detailTypeDisplayName": "Depreciation and depletion",
    "detailTypeDescription": "Use 'Depreciation and
depletion' for accounts which represent the total loss in
the value of a fixed assets over its useful lifetime or the
cost of extracting natural resources such as timber,
minerals and oil from the earth."
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "Amortization",
    "detailTypeDisplayName": "Amortization"
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",

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    "detailType": "ResearchDevelopment",
    "detailTypeDisplayName": "Research and development"
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "Interest",
    "detailTypeDisplayName": "Interest",
    "detailTypeDescription": "Use 'Interest' for interest
paid on any financing facilities such as term loans,
overdrafts or lines of credit."
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "EmployeeStockCompensation",
    "detailTypeDisplayName": "Employee stock compensation",
    "detailTypeDescription": "Use 'Employee stock
compensation' for non-cash shared-based compensation paid to
employees."
  },
  {
    "type": "Expense",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "RevaluationImpairment",
    "detailTypeDisplayName": "Revaluation and impairment"
  },
  {
    "type": "Expense",
    "subtype": "CostOfSales",
    "subtypeDisplayName": "Cost of sales",
    "detailType": "Labour",
    "detailTypeDisplayName": "Labour",
    "detailTypeDescription": "Use 'Labour' to track the cost
of paying employees or contractors whose work can be
directly linked to the production of a product or service."
  },
  {
    "type": "Expense",
    "subtype": "CostOfSales",
    "subtypeDisplayName": "Cost of sales",
    "detailType": "ManufacturingDistribution",

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    "detailTypeDisplayName": "Manufacturing and
distribution",
    "detailTypeDescription": "Use 'Manufacturing and
distribution' for accounts that track costs directly related
to manufacturing a product, providing a service or shipping
products to customers."
  },
  {
    "type": "Expense",
    "subtype": "CostOfSales",
    "subtypeDisplayName": "Cost of sales",
    "detailType": "Materials",
    "detailTypeDisplayName": "Materials",
    "detailTypeDescription": "Use 'Materials' for accounts
which record the cost of raw goods and parts used or
consumed when producing or providing a product or service."
  },
  {
    "type": "Expense",
    "subtype": "CostOfSales",
    "subtypeDisplayName": "Cost of sales",
    "detailType": "OtherCostOfSales",
    "detailTypeDisplayName": "Other cost of sales",
    "detailTypeDescription": "Use 'Other cost of sales' for
all other costs involved directly attributable to the
product or service you sell."
  },
  {
    "type": "Expense",
    "subtype": "NonOperating",
    "subtypeDisplayName": "Non-operating",
    "detailType": "Interest",
    "detailTypeDisplayName": "Interest",
    "detailTypeDescription": "Use 'Interest' for interest
paid on any financing facilities such as term loans,
overdrafts or lines of credit."
  },
  {
    "type": "Expense",
    "subtype": "NonOperating",
    "subtypeDisplayName": "Non-operating",
    "detailType": "PenaltiesFines",
    "detailTypeDisplayName": "Penalties and fines"
  },
  {

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    "type": "Expense",
    "subtype": "NonOperating",
    "subtypeDisplayName": "Non-operating",
    "detailType": "OtherNonOperatingExpenses",
    "detailTypeDisplayName": "Other non-operating expenses",
    "detailTypeDescription": "Use 'Other non-operating
expenses' for costs not associated with the regular running
of the business. Examples include losses on disposals of
property, plant and equipment, losses on hyperinflation."
  },
  {
    "type": "Expense",
    "subtype": "NonOperating",
    "subtypeDisplayName": "Non-operating",
    "detailType": "RestructuringCharges",
    "detailTypeDisplayName": "Restructuring charges"
  },
  {
    "type": "Expense",
    "subtype": "NonOperating",
    "subtypeDisplayName": "Non-operating",
    "detailType": "Drawings",
    "detailTypeDisplayName": "Drawings",
    "detailTypeDescription": "Use 'Drawings' for money
withdrawn by/paid to directors/officers."
  },
  {
    "type": "Expense",
    "subtype": "NonOperating",
    "subtypeDisplayName": "Non-operating",
    "detailType": "Dividends",
    "detailTypeDisplayName": "Dividends"
  },
  {
    "type": "Expense",
    "subtype": "NonOperating",
    "subtypeDisplayName": "Non-operating",
    "detailType": "FxLoss",
    "detailTypeDisplayName": "FX loss",
    "detailTypeDescription": "Use 'FX loss' for losses made
due to currency exchange rate changes."
  },
  {
    "type": "Expense",
    "subtype": "NonOperating",

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    "subtypeDisplayName": "Non-operating",
    "detailType": "Taxes",
    "detailTypeDisplayName": "Taxes",
    "detailTypeDescription": "Use 'Taxes' for all business
related taxes. Taxes related to employment should be
categorized under 'Staff and employment related costs'."
  },
  {
    "type": "Income",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "GeneralServices",
    "detailTypeDisplayName": "General services",
    "detailTypeDescription": "Use 'General services' for
income generated from services the company performs or usage
fees charged."
  },
  {
    "type": "Income",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "ProductsMerchandise",
    "detailTypeDisplayName": "Products and merchandise",
    "detailTypeDescription": "Use 'Products and merchandise'
for accounts that record income from selling products. This
can include all types of products including rental fees,
food, products bought whole for resale and crops and
livestock."
  },
  {
    "type": "Income",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "OtherOperatingIncome",
    "detailTypeDisplayName": "Other operating income",
    "detailTypeDescription": "Use 'Other operating income'
for all other income which does not fit into one of the
operating income categories."
  },
  {
    "type": "Income",
    "subtype": "Operating",
    "subtypeDisplayName": "Operating",
    "detailType": "RentalIncome",
    "detailTypeDisplayName": "Rental income",

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      "detailTypeDescription": "Use 'Rental income' for income
that is generated from tenants of a property including
individuals and businesses. This should not include
equipment rental."
    },
    {
      "type": "Income",
      "subtype": "Operating",
      "subtypeDisplayName": "Operating",
      "detailType": "RecurringRevenue",
      "detailTypeDisplayName": "Recurring revenue",
      "detailTypeDescription": "Use 'Recurring revenue' to
represent the portion of a company's revenue that is
expected to continue in the future. This should not include
one-off sales."
    },
    {
      "type": "Income",
      "subtype": "Operating",
      "subtypeDisplayName": "Operating",
      "detailType": "NonProfitIncome",
      "detailTypeDisplayName": "Non-profit income",
      "detailTypeDescription": "Use 'Non-profit income' to
track income if the company is a non-profit organization."
    },
    {
      "type": "Income",
      "subtype": "Operating",
      "subtypeDisplayName": "Operating",
      "detailType": "DiscountsReturnsAllowances",
      "detailTypeDisplayName": "Discounts, returns and
allowances",
      "detailTypeDescription": "Use 'Discounts, returns and
allowances' to track deductions from sales that shows the
sale price of goods returned by customers, as well as
discounts taken by them to retain defective goods. This
account typically has a negative balance so it offsets other
income."
    },
    {
      "type": "Income",
      "subtype": "NonOperating",
      "subtypeDisplayName": "Non-operating",
      "detailType": "OtherNonOperatingIncome",
      "detailTypeDisplayName": "Other non-operating income",

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    "detailTypeDescription": "Use 'Other operating income'
    for all other income which does not fit into one of the non-
    operating income categories."
  },
  {
    "type": "Income",
    "subtype": "NonOperating",
    "subtypeDisplayName": "Non-operating",
    "detailType": "FxGain",
    "detailTypeDisplayName": "FX gain",
    "detailTypeDescription": "Use 'FX gains' for gains made
    due to currency exchange rate changes."
  },
  {
    "type": "Income",
    "subtype": "NonOperating",
    "subtypeDisplayName": "Non-operating",
    "detailType": "Interest",
    "detailTypeDisplayName": "Interest",
    "detailTypeDescription": "Use 'Interest' for interest
    paid on any financing facilities such as term loans,
    overdrafts or lines of credit."
  },
  {
    "type": "Liability",
    "subtype": "Current",
    "subtypeDisplayName": "Current liabilities",
    "detailType": "OtherShortTermDebt",
    "detailTypeDisplayName": "Other short-term debt",
    "detailTypeDescription": "Use 'Other short-term debt'
    for all other money you owe to financial institutions that
    are due to be paid within 12 months. This should include
    both the principal and interest owed."
  },
  {
    "type": "Liability",
    "subtype": "Current",
    "subtypeDisplayName": "Current liabilities",
    "detailType": "NotesPayable",
    "detailTypeDisplayName": "Notes payable"
  },
  {
    "type": "Liability",
    "subtype": "Current",
    "subtypeDisplayName": "Current liabilities",

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    "detailType": "OtherLongTermDebt",
    "detailTypeDisplayName": "Other long-term debt",
    "detailTypeDescription": "Use 'Other long-term debt' to
represent the current portion of long-term debt. This should
include both the principal and interest owed within 12
months."
  },
  {
    "type": "Liability",
    "subtype": "Current",
    "subtypeDisplayName": "Current liabilities",
    "detailType": "LoansPayable",
    "detailTypeDisplayName": "Loans payable",
    "detailTypeDescription": "Use 'Loans payable' or notes
payable for money you owe to financial institutions that are
due to be paid within 12 months. This should include both
the principal and interest owed."
  },
  {
    "type": "Liability",
    "subtype": "Current",
    "subtypeDisplayName": "Current liabilities",
    "detailType": "ConvertibleDebt",
    "detailTypeDisplayName": "Convertible debt",
    "detailTypeDescription": "Use 'Convertible debt' to
represent any debt due within 12 months that can be exchange
for stock in the company."
  },
  {
    "type": "Liability",
    "subtype": "Current",
    "subtypeDisplayName": "Current liabilities",
    "detailType": "AccountsPayable",
    "detailTypeDisplayName": "Accounts payable",
    "detailTypeDescription": "Use 'Accounts payable' or
trade creditors for money that is outstanding from your
suppliers that you expect to receive within 12 months. If
the monies owed are not in relation to trade, assign to
'Other current liabilities'."
  },
  {
    "type": "Liability",
    "subtype": "Current",
    "subtypeDisplayName": "Current liabilities",
    "detailType": "DirectorsLoans",

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      "detailTypeDisplayName": "Director's loans",
      "detailTypeDescription": "Use 'Directors loans' for
money owed to you by directors or officers of the business,
that you expect to collect within 12 months."
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "AccruedLiabilities",
      "detailTypeDisplayName": "Accrued liabilities",
      "detailTypeDescription": "Use 'Accrued liabilities' for
money that you owe to suppliers but have not been invoiced
for. This should include any expenses which are due within
12 months."
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "InterestPayable",
      "detailTypeDisplayName": "Interest payable",
      "detailTypeDescription": "Use 'Interest payable' for
interest owed on any financing facilities such as term
loans, overdrafts or lines of credit."
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "CreditCards",
      "detailTypeDisplayName": "Credit cards",
      "detailTypeDescription": "Use 'Credit cards' for money
due on your business credit cards."
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "DeferredRevenueCredits",
      "detailTypeDisplayName": "Deferred revenue and credits",
      "detailTypeDescription": "Use 'Use 'Deferred revenue and
credits' for revenue that has been received but not yet
earned. This should include revenue you expect to earn
within 12 months."
    }
  ]
}

```

```

    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "EmployeeStockCompensation",
      "detailTypeDisplayName": "Employee stock compensation",
      "detailTypeDescription": "Use 'Employee stock compensation' for non-cash shared-based compensation still to be paid to employees. This should include compensation expected to be paid within 12 months."
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "PensionPayable",
      "detailTypeDisplayName": "Pension payable",
      "detailTypeDescription": "Use 'Pension payable' for money owed for employee pensions, due within 12 months."
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "TaxesPayable",
      "detailTypeDisplayName": "Taxes payable",
      "detailTypeDescription": "Use 'Taxes' for all money owed for business related taxes and due to be paid within 12 months . Taxes related to employment should be categorized under 'Employee taxes payable'."
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "FinanceLeaseObligations",
      "detailTypeDisplayName": "Finance lease obligations"
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "CapitalLeaseObligations",
      "detailTypeDisplayName": "Capital lease obligations"
    }
  ]
}

```

```

    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "OtherEmployeeBenefitsPayable",
      "detailTypeDisplayName": "Other employee benefits payable"
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "EmployeeTaxesPayable",
      "detailTypeDisplayName": "Employee taxes payable",
      "detailTypeDescription": "Use 'Employment taxes payable' for all money owed for employment related taxes and due to be paid within 12 months."
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "EmployeeWagesPayable",
      "detailTypeDisplayName": "Employee wages payable"
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "DueToAffiliate",
      "detailTypeDisplayName": "Due to affiliate",
      "detailTypeDescription": "Use 'Due to affiliates' for money you owe to entities in the same business group, due within 12 months."
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "DueToJointVenture",
      "detailTypeDisplayName": "Due to joint venture",
      "detailTypeDescription": "Use 'Due to joint ventures' for money you owe to entities for which you are engaged in a joint venture, due within 12 months."
    }
  ]
}

```

```

    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "DueToRelatedParties",
      "detailTypeDisplayName": "Due to related parties",
      "detailTypeDescription": "Use 'Due to related parties'
for money you owe to entities under the same business group,
to joint ventures or internal stakeholders, due within 12
months."
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "DueToEmployees",
      "detailTypeDisplayName": "Due to employees",
      "detailTypeDescription": "Use 'Due to employees' for
money you owe to employees of the business, due within 12
months."
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "DividendsPayable",
      "detailTypeDisplayName": "Dividends payable",
      "detailTypeDescription": "Use 'Dividends payable' for
money declared to be paid to shareholders but not yet paid."
    },
    {
      "type": "Liability",
      "subtype": "Current",
      "subtypeDisplayName": "Current liabilities",
      "detailType": "Other",
      "detailTypeDisplayName": "Other current liabilities",
      "detailTypeDescription": "Use 'Other current
liabilities' for all other liabilities that are due within
12 months."
    },
    {
      "type": "Liability",
      "subtype": "NonCurrent",
      "subtypeDisplayName": "Non-current liabilities",

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    "detailType": "LoansPayable",
    "detailTypeDisplayName": "Loans payable",
    "detailTypeDescription": "Use 'Loans payable' or notes payable for money you owe to financial institutions that are due to be paid in over 12 months. This should include both the principal and interest owed."
  },
  {
    "type": "Liability",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current liabilities",
    "detailType": "NotesPayable",
    "detailTypeDisplayName": "Notes payable"
  },
  {
    "type": "Liability",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current liabilities",
    "detailType": "OtherLongTermDebt",
    "detailTypeDisplayName": "Other long-term debt",
    "detailTypeDescription": "Use 'Other long-term debt' for all other money you owe that are due to be paid in over 12 months. This should include both the principal and interest owed."
  },
  {
    "type": "Liability",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current liabilities",
    "detailType": "CapitalLeaseObligations",
    "detailTypeDisplayName": "Capital lease obligations"
  },
  {
    "type": "Liability",
    "subtype": "NonCurrent",
    "subtypeDisplayName": "Non-current liabilities",
    "detailType": "DueToOfficersStockholders",
    "detailTypeDisplayName": "Due to officers and stockholders",
    "detailTypeDescription": "Use 'Due to officers or stockholders' for money you owe to officers, directors or stockholders, due in over 12 months."
  },
  {
    "type": "Liability",

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        "subtype": "NonCurrent",
        "subtypeDisplayName": "Non-current liabilities",
        "detailType": "OtherEmployeeBenefitsPayable",
        "detailTypeDisplayName": "Other employee benefits payable"
    },
    {
        "type": "Liability",
        "subtype": "NonCurrent",
        "subtypeDisplayName": "Non-current liabilities",
        "detailType": "OtherNonCurrentLiabilities",
        "detailTypeDisplayName": "Other non-current liabilities",
        "detailTypeDescription": "Use 'Other non-current liabilities' for all other liabilities that are due in over 12 months."
    },
    {
        "type": "Liability",
        "subtype": "NonCurrent",
        "subtypeDisplayName": "Non-current liabilities",
        "detailType": "DueToRelatedParties",
        "detailTypeDisplayName": "Due to related parties",
        "detailTypeDescription": "Use 'Due to related parties' for money you owe to entities under the same business group, to joint ventures or internal stakeholders, due in over 12 months."
    },
    {
        "type": "Liability",
        "subtype": "NonCurrent",
        "subtypeDisplayName": "Non-current liabilities",
        "detailType": "DueToEmployees",
        "detailTypeDisplayName": "Due to employees",
        "detailTypeDescription": "Use 'Due to employees' for money you owe to employees of the business, due in over 12 months."
    },
    {
        "type": "Liability",
        "subtype": "NonCurrent",
        "subtypeDisplayName": "Non-current liabilities",
        "detailType": "DueToAffiliate",
        "detailTypeDisplayName": "Due to affiliate",

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      "detailTypeDescription": "Use 'Due to affiliates' for
money you owe to entities in the same business group, due in
over 12 months."
    },
    {
      "type": "Liability",
      "subtype": "NonCurrent",
      "subtypeDisplayName": "Non-current liabilities",
      "detailType": "DueToJointVenture",
      "detailTypeDisplayName": "Due to joint venture",
      "detailTypeDescription": "Use 'Due to joint ventures'
for money you owe to entities for which you are engaged in a
joint venture, due in over 12 months."
    },
    {
      "type": "Liability",
      "subtype": "NonCurrent",
      "subtypeDisplayName": "Non-current liabilities",
      "detailType": "DirectorsLoans",
      "detailTypeDisplayName": "Director's loans",
      "detailTypeDescription": "Use 'Directors loans' for
money owed to you by directors or officers of the business,
that you expect to collect in over 12 months."
    },
    {
      "type": "Liability",
      "subtype": "NonCurrent",
      "subtypeDisplayName": "Non-current liabilities",
      "detailType": "DeferredRevenueCredits",
      "detailTypeDisplayName": "Deferred revenue and credits",
      "detailTypeDescription": "Use 'Deferred revenue and
credits' for revenue that has been received but not yet
earned. This should include revenue you expect to earn in
over 12 months."
    },
    {
      "type": "Liability",
      "subtype": "NonCurrent",
      "subtypeDisplayName": "Non-current liabilities",
      "detailType": "TaxesPayable",
      "detailTypeDisplayName": "Taxes payable",
      "detailTypeDescription": "Use 'Taxes' for all money owed
for business related taxes and due to be paid in over 12
months . Taxes related to employment should be categorized
under 'Employee taxes payable'."
    }
  ]
}

```

```

    },
    {
      "type": "Liability",
      "subtype": "NonCurrent",
      "subtypeDisplayName": "Non-current liabilities",
      "detailType": "EmployeeStockCompensation",
      "detailTypeDisplayName": "Employee stock compensation",
      "detailTypeDescription": "Use 'Employee stock compensation' for non-cash shared-based compensation still to be paid to employees. This should include compensation expected to be paid in over 12 months."
    },
    {
      "type": "Liability",
      "subtype": "NonCurrent",
      "subtypeDisplayName": "Non-current liabilities",
      "detailType": "EmployeeWagesPayable",
      "detailTypeDisplayName": "Employee wages payable",
      "detailTypeDescription": "Use 'Employee wages payable' for money owed to staff or employees that are due to be paid in over 12 months. This should include salaries, wages and any bonuses."
    },
    {
      "type": "Liability",
      "subtype": "NonCurrent",
      "subtypeDisplayName": "Non-current liabilities",
      "detailType": "PensionPayable",
      "detailTypeDisplayName": "Pension payable",
      "detailTypeDescription": "Use 'Pension payable' for money owed for employee pensions, due in over 12 months."
    },
    {
      "type": "Liability",
      "subtype": "NonCurrent",
      "subtypeDisplayName": "Non-current liabilities",
      "detailType": "FinanceLeaseObligations",
      "detailTypeDisplayName": "Finance lease obligations"
    },
    {
      "type": "Liability",
      "subtype": "NonCurrent",
      "subtypeDisplayName": "Non-current liabilities",
      "detailType": "ConvertibleDebt",
      "detailTypeDisplayName": "Convertible debt",
    }
  ]
}

```

```

      "detailTypeDescription": "Use 'Convertible debt' to
      represent any debt due in over 12 months that can be
      exchange for stock in the company."
    }
  ]

```

Retrieve Key Financial Metrics

This method is used to extract the customer's key financial metrics used for credit risk assessment of SME clients. The following financial metrics are extracted:

- Gross profit margin
- EBITDA
- Debt service coverage ratio
- Free cash flow
- Working capital
- Fixed service coverage charge

The call is made through the GET `/data/companies/{companyId}/connections/{connectionId}/assess/financialMetrics` Codat endpoint.

Before calling this method, make sure that the [Check Status Data](#) result contains the following parameter response: `"dataType": "profitAndLoss"` with `"currentStatus": "Complete"`.

NOTE

Make sure you include the [authorization header](#) in your API request.

Response Example

new example

Add Codat Connector in Digital Journeys

FintechOS Codat Connector can be used in different banking or insurance scenarios. For example, when applying for a loan, financial institutions can have access to customer's relevant information by adding this connector to a Digital Journey.

NOTE

The Codat Connector doesn't have a FintechOS component added to it. Therefore, calling the endpoints displayed in Service Pipes, parsing and saving the data received depends on the implementation team.

The below steps reflect the main Codat Connector workflow:

1. Initiate the banking process from your Digital Journey.
2. Create the customer's profile on the Codat platform. The Codat Connector exposes an endpoint to create a new customer ID and returns the redirect link.
3. The redirect link is sent to the customer to initiate the data access consent process.
4. Request the customer's financial data (balance sheets, cash flow statements, and so on).
5. The information is extracted and displayed in your Digital Journey.