KeysFin Connector 1.0

User Guide

TOC

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.

FintechOS offers the possibility of accessing different databases with the purpose of moving around specific data using API connectors. They can be used but are not limited to banking or insurance business scenarios, such as company verification in a loan origination operation, automatically fill-in data, and so on. In addition, connectors can have a significant role in a business's risk management process by providing easy access to databases where information regarding financial risks is stored.

KeysFin is a Romanian platform that stores information about over 2 million companies registered in Romania. In addition to company data, it provides information about the companies' legal representatives such as administrators or stakeholders. Details regarding the their internal systems are also found in their databases. By providing access to detailed company information, it helps financial institutions eliminate potential credit or commercial risks.
The FintechOS KeysFin Connector simplifies company verification processes by allowing financial institutions to easily add it to their digital journey and have access to the business's financial and legal data in a single source of truth. Once integrated to the digital journey, the API connector calls a number of REST APIs in order to retrieve the following data:

- The company's general information such as addresses, fiscal code, e-mail, web page, head office details, and others. For additional details, see the Company General Information page.

- The company group that it controls. For additional details, see the Company Group page.

- Information from Romania's National Trade Register Office. For additional details, see the RECOM Status page.

- Information from Romania's Electronic Archive For Security Interests in Movable Property. For additional details, see the AEGRM page.

- Information about legal cases regarding the company. For additional details, see Legal Cases page.

- The company branch locations other than the main office. For additional details, see the Company Branches page.

- Information about the company's shareholders and administrators. For additional information, see the Company Relations and the Company Relations Extended pages.

- Information about the company's financial situation, for example it's market share. For additional information, see the Company Sector Comparison page.

- Information about the company's real beneficiary, which is a person that owns thee company, or directly or indirectly controls it by owning more than 25% of the company's ownership rights. For additional information, see the Company Ultimate Beneficial Owner page.

- The company's financial data. For additional information, see the Company Financial Data page.

- Information registered in the Payment Incident Central. For additional information, see the Company Payment Incidents page.

- Information specific to the company's scoring, according to calculation methods similar to those in credit reports. For additional information, see the Company Scoring page.

- Information regarding insolvency bulletins published for the interrogated company in the last two years. For more information, see the Company Insolvency page.

When accessed from a digital journey, the KeysFin Connector allows banks and other financial institutions to collect and verify data from multiple databases. It can be further enhanced via FintechOS Studio adapting it to business requirements. The result is a fully functional and personalized searching tool that collects the needed information in a few steps.

> **NOTE**
> The KeysFin Connector Connector can be used only for companies registered in Romania. The information is retrieved from Romanian public records.

Business Pain Points

The KeysFin Connector is aimed at resolving some of the pain points when searching fraud KeysFin databases business data:

- searching for company data is time consuming

- requires verified and updated information

- limited time to analyze the data found

- manually inputting customer data can be costly and information is spread across multiple databases

- errors can occur when entering data manually

Key features

Once integrated in a digital journey, the KeysFin 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 simply the search process.

- Time-efficient. The data no longer needs to be added manually.

- There are considerably fewer errors in the retrieved data.

- The retrieved information is verified, structured, and up-to-date.

- Single point of entry for a detailed search.

Installation

Follow the below steps to install FintechOS KeysFin Connector.

Prerequisites:

1. Download the package from FintechOS Marketplace.

2. Obtain the KeysFin user name and password.

   NOTE

   The user name and password are obtained from the KeysFin platform.

3. Install the package on an environment FintechOS 21.1.6.0 and above with Innovation Studio, Portal and B2C Portal configured. For details on B2C, see Setting B2C Environment.

4. Configure the **JobServer**. For information regarding FTOS JobServers, see the JobServer section from the Core DPA Platform 2 Administration Guide.

Deployment Packages Import:

1. Open the FintechOS Innovation Studio, navigate to the **DevOps** menu, select the **Deployment Packages**. The Deployment **Packages List** page opens.

2. At the top-right corner of the page, click the **Import deployment package** icon. The Open pop-up appears.

   NOTE

   For details on how to import, see Importing a Deployment Package.

Browse for the deployment package and import the following packages:

- **ConnectorsAPI - 2.xml**

- **Keysfin - 1.03.xml**

Configuration Data Package Import:

> **IMPORTANT!**
> This package only contains the records, not the metadata. Records are inserted into the fields in a FintechOS Portal.

1. From the Innovation Studio main menu, select **Configuration Management** > **Deployment** > **Config Data Packages**.

2. Click on the **Import Data Config Data** icon found on the top right-side part of the screen.

3. The local **Files** menu of the device opens. Select the files to be imported:

    - **FTOS_EXTD_Connectors_v1.3.xml**

    - **FTOS_EXTD_ConnectorsApis_v1.3.xml**

    - **FTOS_EXTD_ConnectorsApis_v1.3-000.xml**

    - **FTOS_EXTD_ConnectorsApis_v1.3-001.xml**

    - **FTOS_EXTD_ConnectorsApis_v1.3-003.xml**

    - **FTOS_EXTD_ConnectorsApis_v1.3-004.xml**

4. The system warns you about the source database version. The answers options are **Yes** and **No**. Select **Yes** to continue.

5. The system asks ''**Do you want to deploy audit configurations (you should normally choose 'Yes')?**''. The answers options are **Yes** and **No**. Select **Yes** if you wish to deploy it. If you do not wish to deploy it, click **No**.

6. The package is successfully imported if it meets the requirements. These requirements must be met when the package is created, i.e. exported.

The script starts running in your Windows console. Wait for it to finish. If the parameter values were correct, the KeysFin Connector installation is successful.

Solution Walkthrough

The KeysFin Connector offers the possibility of accessing and retrieving company information from the Romanian platform KeysFin. This site collects company information such as:

- Company general information

- Real securities (AEGRM)

- Company group

- Legal cases

- Recom status

- Company relations

- Company sector comparison

- RBR check

- Company search

- Company financial data

- Company payment incidents

- Company relations extended

- Company insolvency

- Company scoring

- UBO Check

For a detailed walkthrough on how to search for company information, see the Search Company page.

> **IMPORTANT!**
> The walkthrough is not a representation of a stand-alone application or on how to

use the KeysFin Connector to search and retrieve data regarding Romanian companies. It represents a proposition on how to use this connecter once it is integrated in a digital journey.

Search Company

The FintechOS KeysFin Connector offers the possibility of searching the KeysFin platform for details regarding companies registered in Romania. Institutions can add this connector to their digital journey to easily retrieve the necessary company information.

IMPORTANT!
The below walkthrough is a proposition on how to use the FintechOS KeysFin Connector in a digital journey to search for company data.

1 Access KeysFin Connector

1. Log into the FintechOS Portal using the given credentials.

2. From the main menu, expand **My Projects** > **KeysFin**.

3. Select the **Company Search** option. The **Company Search** page opens.

4. At the top-right corner of the screen, click the **Insert** button. The **Add Company Search - Step 1** page opens.

2 Search for Company Data

5. In the **Add Company Search - Step 1**, fill in the following fields:

ADD COMPANY SEARCH - STEP1

```
38120136
```

```
Company General Information        ▾  ✎
```

Next

IMPORTANT!
The data retrieved through the KeysFin connector is mapped in the connector's data model and in the FTOS_EXTD_KEYS_Search entity `json response` attribute.

Field	Required	Type	Description
Search Term (CUI)	Yes	Text	Enter the name or the company unique fiscal code.

Field	Required	Type	Description
Method	No	Option Set	The following options are available: • [none] • Company General Information • Real Securities • Company Group • Legal Cases • Recom status • Company Relations • Company Sector Comparison • RBR Check • Company Search • Company Financial Data • Company Payment Incidents • Company Relations Extended • Company Insolvency • Company

Field	Required	Type	Description
			Scoring • UBO Check **NOTE** The **[none]** value is not valid. An error is returned if this option is selected.

6. Click the **Next** button. The **Edit Company Search** page is displayed. This page contains general company information and company group.

7. Click on each section to see the retrieved data.

EDIT COMPANY SEARCH - STEP2

COMPANY GENERAL INFORMATION

	Company Name	Fiscal Code	Registration N...	City	Street	Number	Share capital	Company stat...
	abc	abc	abc	abc	abc	abc	Q	abc
	FINTECH OS ...	38120136	J40/14655/2...	BUCURESTI S...	PIPERA	46D-46E-48	100,000.00	functiune;

COMPANY GROUP

	KeysFin Company ID	County	Company Registration Nu...	Linked Entity Name	Company status with REC...
	abc	abc	abc	abc	abc

No data

Previous   Finish

8. Click the **Finish** button. The **Company General Information List** page opens.

> **NOTE**
> To make changes to the search, click the **Previous** button to go back to the **Add Company Search - Step 1** page.

Company General Information

Once a company search is made, the main data retrieved is stored in the **Company General Information** menu. This menu displays general information such as addresses, fiscal code, e-mail, web page, head office details, and others.

COMPANY GENERAL INFORMATION				
■	Apartment	Block	Caen version	City
	🔤	🔤	🔍	🔤
			2	BRASOV
✓			2	BRASOV
			2	BRASOV

To view additional general company information, expand from the main menu **My Projects** > **KeysFin** and select the **Company General Information** option. Double-click on the wanted record. The following information is displayed:

Field	Required	Type	Description
Apartment	No	Text	The apartment number from the company's address.
Block	No	Text	The building number from the company's address.

Field	Required	Type	Description
Caen version	No	Numeric	NACE code according to CAEN, The NACE code groups organisations according to their business activities.
Capital type	No	Text	The type of capital. For example: private local capital.
City	No	Text	The city where the company is located.
Company Signal	No	Text	Indicates what type of changes were made over the incorporation certificate.
Date of constitutive act	No	Date	The date of the constitutive act.
Country	No	Text	The country where the company's located.
County	No	Text	The county where the company's located.
E-mail	No	Text	The company's email address.
Number of employees	No	Text	The company's number of employees.

Field	Required	Type	Description
Entrance	No	Text	The entrance number or name.
Date of Incorporation	No	Date	The date when the company was incorporated.
Fiscal Code	No	Text	The company's unique fiscal code.
Floor	No	Text	The floor number from the company's address.
Head Office Document Date	No	Date	The date of issuance of the registered office document.
Head Office Document Date From	No	Date	The starting date of the registered office document.
Head Office Document Date To	No	Date	The ending date of the registered office document.
Head Office Document Number	No	Text	The registered office's number.
Head Office Document Type	No	Text	The registered office's document type.
Head Office Document Valability	No	Text	The registered office's document valability.

Field	Required	Type	Description
Legal form	No	Text	The legal form of the company. For example: SRL, SA, PFA.
NACE code	No	Text	The NACE code.
Description of NACE code	No	Text	The description of the NACE code.
Company Name	No	Text	The company name.
Number	No	Text	The company number.
Business ownership type	No	Text	The business ownership type. For example: state owned business, private owned business.
Phone Number	No	Text	The company's phone number.
Postal Code	No	Text	The company's postal code.
Registration Number from RECOM	No	Text	The registration number from RECOM.
Search Lookup Id	No	Lookup	The search lookup ID.
Share capital	No	Text	The share capital.
Company status with RECOM	No	Text	The company RECOM status.
Street	No	Text	The street name.

Field	Required	Type	Description
Update date	No	Date	The last change the company made upon the incorporation certificate.
Web	No	Text	The company's web address.

Company Branches

The Company Branches section is also visible from the **Edit Company General Information** page. It displays the business's office locations other than the main office. For additional information, see the Company Branches page.

> **NOTE**
> Business locations can be added, deleted, or exported from this section. To add a new location, click the **Insert** button.

Company Branches

Once a company search is made, the company's locations data is stored in the **Company Branches** menu. This menu displays the business's office locations other than the main office.

COMPANY BRANCHES

	Country	City	Name	Start Date	Stop Date
	ROMANIA	Sat Sânpetru, Comuna Sâ…	Punct de lucru	09/04/2014	08/04/2016
	ROMANIA	Municipiul Braşov	Punct de lucru	01/01/1900	01/01/1900
	ROMANIA		CONTR.LOC.GESTIUNE	23/10/1991	01/01/1900
	ROMANIA	Municipiul Braşov	Punct de lucru	01/04/2013	31/03/2018
	ROMANIA	Municipiul Braşov	Punct de lucru	01/01/1900	01/01/1900
	ROMANIA	Sat Sânpetru, Comuna Sâ…	Punct de lucru	09/04/2014	08/04/2016
	ROMANIA		CONTR.LOC.GESTIUNE	23/10/1991	01/01/1900
	ROMANIA	Municipiul Braşov	Punct de lucru	01/04/2013	31/03/2018
	ROMANIA	Municipiul Braşov	Punct de lucru		
	ROMANIA	Municipiul Braşov	Punct de lucru		

5 10 20   1 2

To view additional data regarding the company's locations, expand from the main menu **My Projects** > **KeysFin** and select the **Company Branches** option. Double-click on the wanted record. The following information is displayed:

Field	Required	Type	Description
Apartment	No	Text	The apartment number.
Block	No	Text	The building number.
branchesBa	No	Text	The branches business attribute.
City	No	Text	The city where the branch is located.
Company Lookup ID	No	Lookup	The lookup ID.

Field	Required	Type	Description
Country	No	Text	The country where the branch is located.
District	No	Text	The district where the branch is located.
Entrance	No	Text	The entrance number or name.
Floor	No	Text	The floor number.
Name	No	Text	The name of the branch.
Number	No	Text	The number of the branch.
Postal code	No	Text	The postal code from the branch's address.
Start Date	No	Date	The date the branch became active.
Stop Date	No	Date	The date the branch became inactive.
Street	No	Text	The street name from the branch's address.

Company Group

Once a company search is made, the data regarding the company's group is stored in the **Company Group** menu. This menu displays the economic entity's set of companies that it controls.
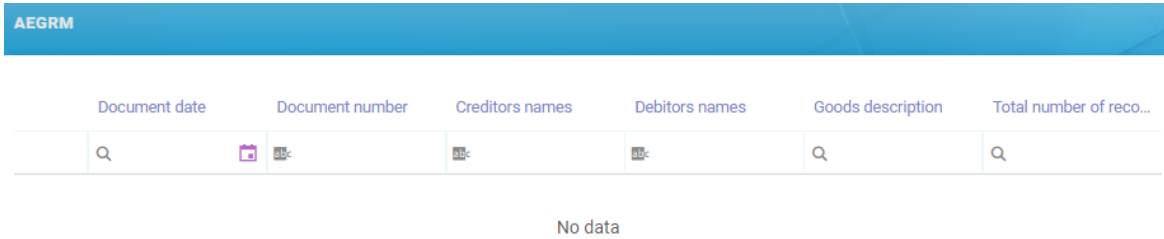

The following information is displayed:

Field	Required	Type	Description
KeysFin Company ID	No	Text	The company ID provided by the KeysFin platform.
County	No	Text	The county where the company is located.
Company Registration Number	No	Text	The company's registration number.
Linked Entity Name	No	Text	The legal entity linked to the company.
Company status with RECOM	No	Text	The RECOM company status.

AEGRM

Once a company search is made, the data regarding AEGRM is stored in the **AEGRM** menu. This menu displays the information from Romania's Electronic Archive For Security Interests in Movable Property.

The following information is displayed:

Field	Required	Type	Description
Document date	No	Date	The date of the document.
Document number	No	Text	The number of the document.
Creditors name	No	Text	The creditor's name.
Debitors name	No	Text	The debitor's name.
Goods description	No	Text	The description of the goods.
Total number of records	No	Text	The total number of records registered on Romania's Electronic Archive For Security Interests in Movable Property platform.

Legal Cases

Once a company search is made, the data regarding the company's legal cases is stored in the **Legal Cases** menu. This menu displays the information about cases involving the company.
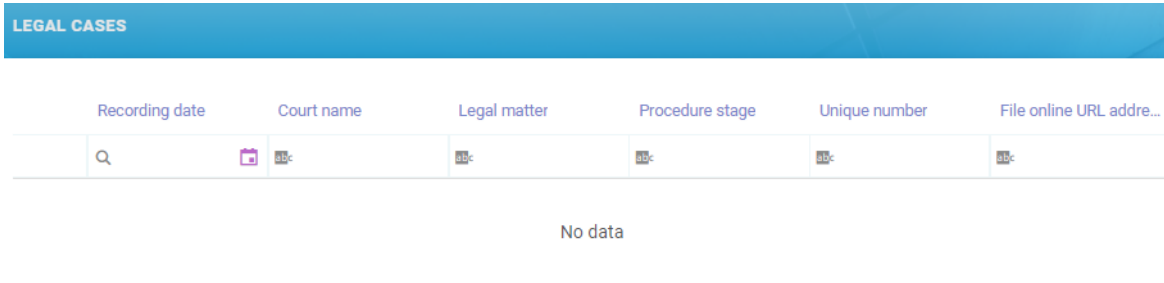
The following information is displayed:

Field	Required	Type	Description
Recording date	No	Date	The case registration date.
Court name	No	Text	The name of the court that's handling the case.
Legal matter	No	Text	The legal matter. For example, insolvency.
Procedure stage	No	Text	The procedure stage.
Unique number	No	Text	The unique legal case's unique number.
File online URL address	No	Text	The URL address of the case.

RECOM Status

Once a company search is made, the data regarding the company's RECOM status data is stored in the **RECOM** menu. This menu displays the information from Romania's National Trade Register Office.

The following information is displayed:

Field	Required	Type	Description
Town	No	Text	The city the company's located in.
County	No	Text	The county the company's located in.
Status	No	Text	Company status with RECOM can have the following values: • active • inactive For example: deregistered, bankruptcy, insolvency, and so on.

Field	Required	Type	Description
Fiscal Code	No	Text	The company's unique fiscal code.
Has error	No	Text	If true, the RECOM status has an error.
Name	No	Text	The company's name.
RegNo	No	Text	The company's registration number.
DataUpdate	No	Date	The date of the last update entry.

Company Financial Data

Once a company search is made, the data regarding the company's financial information is stored in the **Company Financial Data** section. This section displays the information about the company's financial income and loss.

COMPANY FINANCIAL DATA

	Available cash	Balance sheet type	Financial income	Financial Loss	TOTAL ASSETS

No data

The following information is displayed:

Field	Required	Type	Description
Available Cash	No	Text	The business's available amount of money.
Balance Sheet Type	No	Text	A financial statement that reports the company's assets.
Financial Income	No	Text	The income contained within the financial statements of a company.
Financial Loss	No	Text	A significant decrease of the total annual revenues at the end of the financial year.
Total Assets	No	Text	The amount of all the company's current and long-term assets.

Company Scoring

Once a company search is made, the data regarding the company's credit scoring details is stored in the **Company Scoring** section. This section displays information about cases involving the company. The company's scoring, according to calculation methods similar to those in credit reports.

COMPANY SCORING

▪ Export	↻ Refresh		

Risk rating	Risk rating description	Description	Scoring
abc	abc	abc	🔍

No data

The following information is displayed:

Field	Required	Type	Description
Risk rating	No	Date	A corporate risk rating indicates the company's creditworthiness. Usually, these ratings are issued by rating agencies to help investors determine the risks associated with investing in the a certain company. For example, A5.
Risk rating description	No	Text	The risk rating description. For example: rating A5 indicates an average credit risk and is assigned to companies with moderate repayment capacity.

Field	Required	Type	Description
Description	No	Text	An additional description fro the rating. For example, for rating A5: Overall, the operations are considered normal, the company being able to fulfill normal commitments. It presents a medium risk for creditors.
Scoring	No	Text	The scoring number. For example: 15.

Company Insolvency

Once a company search is made, data regarding insolvency is stored in the **Company Insolvency** section. This section displays the information about insolvency cases involving the company.

COMPANY INSOLVENCY

Court	Insolvency Bulletin Date	Insolvency Bulletin Num...	Insolvency document	Insolvency document date

No data

The following information is displayed:

Field	Required	Type	Description
Court	No	Text	The court that handled the insolvency case.
Insolvency Bulletin Date	No	Date	The date of the insolvency bulletin.
Insolvency Bulletin Number	No	Text	The number of the insolvency bulletin.
Insolvency Document	No	Text	The insolvency document.
Insolvency Document Date	No	Date	The date of the insolvency document.

Company Relations

Once a company search is made, the data regarding people associated with the company is stored in the **Company Relations** section. This section displays the information about the company's shareholders and administrators.

COMPANY RELATIONS

| Export | Refresh |

Name	City	County	Address
🔍	🔍	🔍	🔍

No data

The following information is displayed:

Field	Required	Type	Description
Name	No	Text	The name of the administrator or shareholder.
City	No	Text	The city where the administrator or shareholder is located.
County	No	Text	The county where the administrator or shareholder is located.
Address	No	Text	The full address.

Company Relations Extended

Once a company search is made, the data regarding people associated with the company is stored in the **Company Relations** section. This section displays the information about the company's shareholders and administrators.

COMPANY RELATIONS EXTENDED

	Export	Refresh			
Birth Country	Birth Date	City	Commercial receivables	Country
Q	Q	Q	Q	Q

No data

The following information is displayed:

Field	Required	Type	Description
Birth country	No	Text	The birth country of the company's administrator or shareholder.

Field	Required	Type	Description
Birth date	No	Text	The birth date of the company's administrator or shareholder.
City	No	Text	The city where the administrator or shareholder is located.
Commercial receivables	No	Text	The commercial receivables.
Country	Required	Type	The country where the administrator or shareholder is located.

Company Sector Comparison

Once a company search is made, the data regarding the company's financial situation is stored in the **Company Sector Comparison** section. This section displays the company's financial data registered in public records, for example it's market share. This data can be used for analysis and reporting purposes.

COMPANY SECTOR COMPARISON

	Indicators group...	Total Capital	Total Assets	Receivables	Total Debts	Turnover	Gross Profit
				No data			

The following information is displayed:

Field	Required	Type	Description
Indicators Group	No	Text	The economical indicator used by analysts to interpret current or future investment possibilities.
Total Capital	No	Text	The company's total interest-bearing debt plus the shareholders' equity.
Total Assets	No	Text	The total amount of assets owned by an individual or legal entity.
Receivables	No	Text	The amounts owed to a business.
Total Debt	No	Text	The company's total liabilities, categorized as short and long-term debt.
Turnover	No	Text	Indicates how quickly a business conducts its operations.
Gross Profit	No	Text	The profit a business makes after eliminating all the manufacturing costs and selling its products or services.

Company Ultimate Beneficial Owner

Once a company search is made, the data regarding the company's beneficial owner is stored in the **UBO Check** section. This section displays the information about persons that own or control more than 25% of a company's shares or voting rights.

UBO CHECK

| Export | Refresh |

KeysFin Company ID	Company Type	Fiscal Code	Company Name
Q	Q	Q	Q

No data

The following information is displayed:

Field	Required	Type	Description
KeysFin company ID	No	Lookup	The company ID issued by KeysFin.
Company type	No	Lookup	The type of company.
Fiscal code	No	Lookup	The company's fiscal code
Company name	No	Lookup	The company's name.

Company State Debts

Once a company search is made, the data regarding the company's state debts is stored in the **Company State Debts** section. This section displays the information about the company's government debts .

COMPANY STATE DEBTS

| Export | Refresh |

Debts To State Budget Year	Health Insurance Debts Year	Social Insurance Debts Year	Unemployment Insurance Debts ...
Q	Q	Q	Q

No data

The following information is displayed:

Field	Required	Type	Description
Debts to state budget year	No	Lookup	The yearly state debts.
Health insurance debts year	No	Lookup	The yearly health insurance debts.
Social insurance debts year	No	Lookup	The yearly social insurance debts.
Unemployment insurance debts year	No	Lookup	The yearly unemployment insurance debts.

HINT

For detailed information about the company debts, see the Company Debts to State Budget, Company Health Insurance Debts, Company Social Insurance Debts, and the Company Unemployment Insurance Debts pages.

Company Debts to State Budget

Once a company search is made, the data regarding the company's debts to the state budget details is stored in the **Company Debts to State Budget** section.

DEBTS TO STATE BUDGET

■ Export	⊘ Refresh

Debts To State Budget Has Bran...	Debts To State Budget Excise	Debts To State Budget Month	Debts To State Budget VAT
🔍	🔍	🔍	🔍

No data

The following information is displayed:

Field	Required	Type	Description
Debts to state budget has branches	No	Lookup	The debtor has branches and/ or work points.
Debts to state budget excise	No	Lookup	The debts to state budget excise.
Debts to state budget month	No	Lookup	The month the state budget debt is registered.
Debts to state budgets VAT	No	Lookup	The VAT added tot the debts to the state budget.

Company Health Insurance Debts

Once a company search is made, the data regarding the company's health insurance debts is stored in the **Health Insurance Debts** section.

HEALTH INSURANCE DEBTS

Export | Refresh

Health Insurance Debts Has Branches	Health Insurance Debts Month	Health Insurance Debts Year
Q	Q	Q

No data

The following information is displayed:

Field	Required	Type	Description
Health insurance debts has branches	No	Text	The debtor has branches and/ or work points.
Health insurance debts month	No	Text	The monthly health insurance debt.
Health insurance debts year	No	Text	The yearly health insurance debt.

Company Social Insurance Debts

Once a company search is made, data regarding social insurance debts is stored in the **Social Insurance Debts** section. This section displays the information about public insurance that offers protection against various risks such as unemployment, loss of income, and others.

SOCIAL INSURANCE DEBTS

Export | Refresh

Social Insurance Debts From Pa...	Social Insurance Debts Month	Social Insurance Debts Remarks	Social Insurance Debts Year
Q	Q	Q	Q

No data

The following information is displayed:

Field	Required	Type	Description
Social insurance debts from past year	No	Text	The social insurance debt from the last year.
Social insurance debts month	No	Date	The monthly social insurance debt.
Social insurance debts remarks	No	Text	Additional notes regarding the social insurance debt.
Social insurance debts year	No	Text	The yearly social insurance debt.

Company Unemployment Insurance Debts

Once a company search is made, the data regarding the company's unemployment insurance debts is stored in the **Unemployment Insurance Debts** section.

The following information is displayed:

Field	Required	Type	Description
Unemployment insurance debts from past year	No	Text	The unemployment insurance debt from the last year.
Unemployment insurance debts from past month	No	Text	The unemployment insurance debt from the last month.

Field	Required	Type	Description
Unemployment insurance debts from year	No	Text	Yearly unemployment insurance debts.

Company Payment Incidents

Once a company search is made, the data registered in the Payment Incident Central is stored in the **CIP** section. This section displays the information about the company's financial income and loss.

The following information is displayed:

Field	Required	Type	Description
Record ID	No	Lookup	The record ID number.
ID of the KeysFin order (Order ID)	No	Lookup	The KeysFin order ID.
Record description	No	Date	The record description.
Amount by check	No	Text	The check amount.
Amount by bill exchange	No	Text	The bill of exchange amount.
Amount by promissory note	No	Text	The amount by promissory note.
Total amount	No	Text	The total amount.

Field	Required	Type	Description
Bill of exchange incidents period end	No	Date	The bill of exchange incidents period end.
Bill of exchange incidents period start	No	Date	The bill of exchange incidents period start.
Check incidents period end	No	Date	The check incidents period end.
Check incidents period start	No	Date	The check incidents period start.
Payment incident recording date	No	Date	The payment incident recording date.

Configurations Walkthrough

The following chapter of this guide is meant to explain how to use the KeysFin Connector in digital journeys, as well as the technical details of how the connector helps return data.

The KeysFin Connector is configurable to fit the business needs of any financial institution to help simply the verification process and reduce risk exposure. This connector can be integrated in their digital journey to have easy access to databases containing company information. The information retrieved is updated and it offers a better insight on current or potential customers and businesses.

For example, for SME onboarding , along with other eligibility steps, a company verification step is mandatory. To accelerate the process and eliminate any risks that the institution takes, the FintechOS KeysFin Connector can be accessed from their digital journey. The bank clerk searches the database for company information including general data, insolvency and financial reports, etc., by triggering the external call to the endpoint exposed by the KeysFin Connector. Then, the connector calls the KeysFin platform and the data received is saved in the connector's data model. Thus, the retrieved information saved in the data model is displayed in the bank clerk's digital journey allowing them to simply continue the loan origination process.

For more information about performing API calls with the KeysFin connector and poetential errors returned, see the following pages:

- API methods

- Using the KeysFin Connecter in Digital Journeys

- Request Responses

The image below is an UML diagram showing the KeysFin search workflow. To download the diagram in Visio, click here.
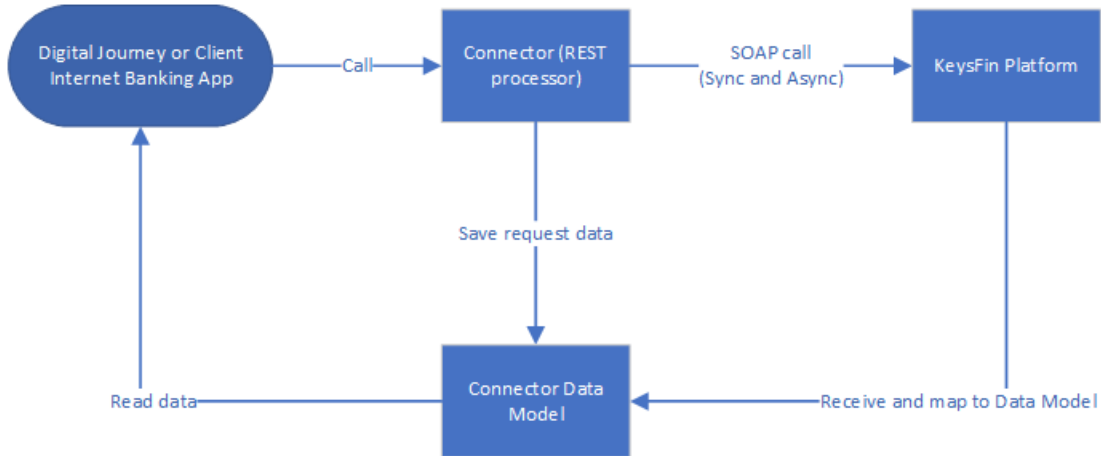
The image below is a sequence UML diagram for asynchronous methods. To download the diagram in Visio, click here.
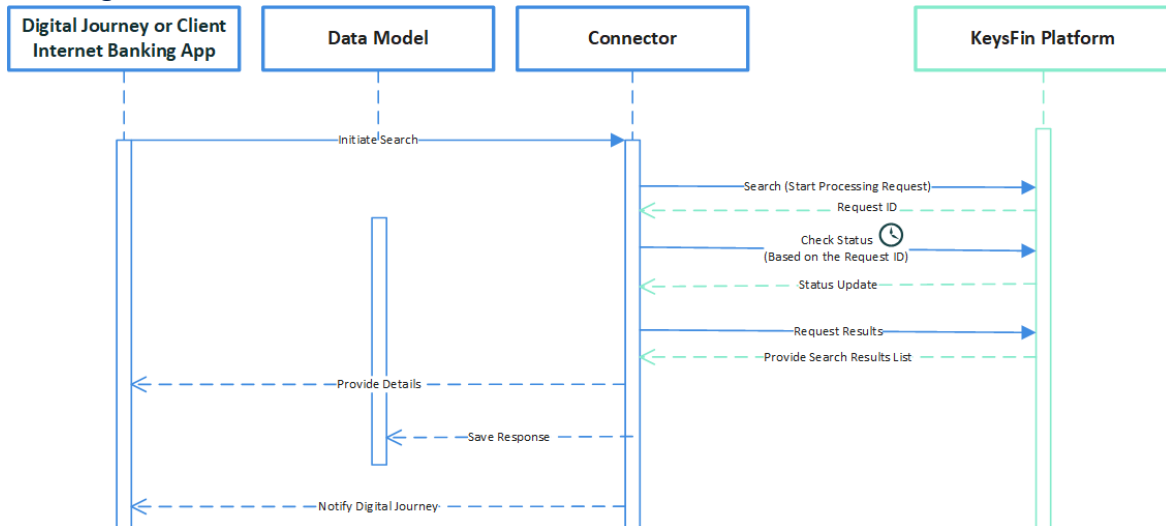
API Methods

The KeysFin Connector uses asynchronous and synchronous API methods to retrieve company data. The methods are detailed below.

Synchronous methods

The synchronous methods use the `FTOS_EXTD_KEYS_Request_Sync` endpoint. In synchronous methods, the tasks in a program must finish processing before starting a new one.

Company Group

Returns the economic entity's set of companies that it controls.

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Sync",
        "Data": "{ companyCui: "FiscalCode",
connectorMethodName: "CompanyGroup" }"
    }
}
```

Response:

> **IMPORTANT!**
> Data has been redacted because it contains sensitive information including PII.

```
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
```

```
            "NavigateToEntityInsertDefaults": null,
            "NavigateToUrl": null,
            "DownloadFile": null,
            "ReloadPage": false,
            "Message": null,
            "IsSuccess": false,
            "Data": "{"CompanyGroup":"Important! Data has been
    redacted because it contains sensitive information including
    PII",
            "NavigateToPageNo": null
        },
        "Message": null,
        "IsSuccess": true,
        "ClientScript": null,
        "Serialized": null,
        "ErrorCode": 0
    }
```

Company Relations

Returns information regarding the company's shareholders and administrators.

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Sync",
        "Data": "{ companyCui: 19, connectorMethodName:
    "CompanyRelations", "maxLevel": 1, "isHistory": true,
    "minPercentage": 100 }"
    }
}
```

Response:

```
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
        "Data": "{"CompanyRelations":"Important! Data has
been redacted because it contains sensitive information
including PII",
```

Company General Information

Returns general company information for companies such as addresses, fiscal code, e-mail, web page, head office details, and so on.

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Sync",
        "Data": "{ companyCui: 19, connectorMethodName:
"CompanyGeneralInformation" }"
    }
}
```

Response:

```json
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
        "Data": "{"CompanyGeneralInformation":"Important!
Data has been redacted because it contains sensitive
information including PII",
        "NavigateToPageNo": null
    },
    "Message": null,
    "IsSuccess": true,
    "ClientScript": null,
    "Serialized": null,
    "ErrorCode": 0
}
```

Company Sector Comparison

Returns information about the company's financial situation, for example it's market share. This data can be used for analysis and reporting purposes.

Call Example

Request:

```json
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Sync",
        "Data": "{ companyCui: 19, connectorMethodName:
"CompanySectorComparison"}"
```

```
        }
    }
```

Response:

```
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
        "Data": "{"Company Sector Comparison":"Important!
Data has been redacted because it contains sensitive
information including PII",
        "NavigateToPageNo": null
    },
    "Message": null,
    "IsSuccess": true,
    "ClientScript": null,
    "Serialized": null,
    "ErrorCode": 0
}
```

Company Search

Returns company data based on the company's name or other parameters used.

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Sync",
        "Data": "{ companyCui: "19" , connectorMethodName:
"CompanySearch", city: "bucuresti", county: "bucuresti",
companyName: "" }"
```

Response:

```
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
        "Data": "{"CompanySearch":"Important! Data has been
redacted because it contains sensitive information including
PII",
        "NavigateToPageNo": null
    },
    "Message": null,
    "IsSuccess": true,
    "ClientScript": null,
    "Serialized": null,
    "ErrorCode": 0
}
```

Company Scoring

Returns a set of parameters specific to the company's scoring, according to
calculation methods similar to those in credit reports.

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Sync",
        "Data": "{ companyCui: 19, connectorMethodName:
"CompanyScoring" }"
    }
}
```

Response:

```
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
        "Data": "{"CompanyScoring":"Important! Data has been
redacted because it contains sensitive information including
PII",
        "NavigateToPageNo": null
    },
    "Message": null,
    "IsSuccess": true,
    "ClientScript": null,
    "Serialized": null,
    "ErrorCode": 0
}
```

Company Financial Data

Returns the company's financial data such as income, expenses, net and gross profit, and so on.

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Sync",
        "Data": "{ companyCui: 14837428,
connectorMethodName: "CompanyFinancial" }"
    }
}
```

Response:

```
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
        "Data": "{"CompanyFinancial":"Important! Data has
been redacted because it contains sensitive information
including PII",
        "NavigateToPageNo": null
    },
    "Message": null,
    "IsSuccess": true,
    "ClientScript": null,
    "Serialized": null,
```

```
        "ErrorCode": 0
    }
```

Company Insolvency

Returns company data registered in the Insolvency Proceedings Bulletin.

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Sync",
        "Data": "{ companyCui: 19, connectorMethodName:
"CompanyInsolvency" }"
    }
}
```

Response:

```
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
        "Data": "{"CompanyInsolvency":"Important! Data has
been redacted because it contains sensitive information
including PII",
        "NavigateToPageNo": null
```

```
        },
        "Message": null,
        "IsSuccess": true,
        "ClientScript": null,
        "Serialized": null,
        "ErrorCode": 0
    }
```

RBR Check

Returns information about the company's real beneficiary, which is a person that owns thee company, or directly or indirectly controls it by owning more than 25% of the company's ownership rights.

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Sync",
        "Data": "{ companyCui: "FiscalCode",
connectorMethodName: "RBR_Check"}"
    }
}
```

Response:

> **IMPORTANT!**
> Data has been redacted because it contains sensitive information including PII.

```
{
    "UIResult": {
        "NavigateToEntityPage": false,
```

```
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
        "Data": "{"RBR Check":
[{"companyId":"0000000",
"fiscalCode":"9999999",
"regNumber":"J40/0000/2001",
"name":"COMPANY NAME",
"updateDate":"2021-8-4",
"Investigations":
    [{"companyId":"0000000",
    "name":"PERSON'S NAME",
    "pin":"12345678910",
    "birthDate":"1981-11-5",
    "placeOfBirth":"Municipiul București",
    "citizenship":"română",
    "county":"București",
    "residenceCountry":"",
    "Declaration":
        [{"declarationNumber":"555555",
        "declarationDate":"2020-10-21"}],
    "personId":"123456"},
    {"companyId":"0000000",
    "name":"ANOTHER PERSON'S NAME",
    "pin":"2345678911",
    "birthDate":"1984-7-31",
    "placeOfBirth":"Loc. Bârlad",
    "citizenship":"română",
    "county":"București",
    "residenceCountry":"",
    "Declaration":
        [{"declarationNumber":"555555",
        "declarationDate":"2020-10-21"}],
    "personId":"789101"}]}]}",
    "NavigateToPageNo": null
},
"Message": null,
"IsSuccess": true,
```

```
        "ClientScript": null,
        "Serialized": null,
        "ErrorCode": 0
    }
```

Company State Debts

Returns information about the company's state debts such as health insurance debts, social debts, budget debts, and so on.

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Sync",
        "Data": "{ companyCui: "FiscalCode",
connectorMethodName: "CompanyStateDebts"}"
    }
}
```

Response:

```
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
```

```
        "Data": "{"Company State Debts":"Important! Data has
been redacted because it contains sensitive information
including PII",
        "NavigateToPageNo": null
    },
    "Message": null,
    "IsSuccess": true,
    "ClientScript": null,
    "Serialized": null,
    "ErrorCode": 0
}
```

Ultimate Beneficial Owner (UBO) Check

Returns information about persons that own or control more than 25% of a company's shares or voting rights.

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Sync",
        "Data": "{ companyCui: 19, connectorMethodName:
"UBO_Check"}"
    }
}
```

Response:

```
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
```

```
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
        "Data": "{"UBO Check":"Important! Data has been
redacted because it contains sensitive information including
PII",
        "NavigateToPageNo": null
    },
    "Message": null,
    "IsSuccess": true,
    "ClientScript": null,
    "Serialized": null,
    "ErrorCode": 0
}
```

Asynchronous methods

The asynchronous methods use the FTOS_EXTD_KEYS_Request_Async endpoint. In asynchronous methods, tasks can begin executing in at the same time, without waiting for another one to finish.

The below message is received when a call is made using the asynchronous endpoints: `To verify your request you need to call FTOS_EXTD_KEYS_GetData_Async endpoint with searchId=","searchId":"6401339f-d3c1-4dec-a5ea-e6f9aaaea0fa"`

Once the `getDataAsync` rquest is made, it can take a few moments for the data to be populated in the request body and the following message is displayed: `Data is not ready yet, try again later.`

FTOS_EXTD_KEYS_GetData_Async

Request body:

```json
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_GetData_Async",
        "Data":"{  searchId: \"20060260-e298-4b36-b785-
c7f1186d14f7\"}"
    }
}
```

Data is not ready response:

```json
{

    "UIResult": {

        "NavigateToEntityPage": false,

        "NavigateToEntityPageOnEdit": false,

        "NavigateToEntityFormName": null,

        "NavigateToEntityName": null,

        "NavigateToEntityId": null,

        "NavigateToEntityInsertDefaults": null,

        "NavigateToUrl": null,

        "DownloadFile": null,

        "ReloadPage": false,

        "Message": null,

        "IsSuccess": false,

        "Data": "\"Data is not ready yet, try again
later\"",

        "NavigateToPageNo": null
```

```
        },

        "Message": null,

        "IsSuccess": true,

        "ClientScript": null,

        "Serialized": null,

        "ErrorCode": 0

    }
```

Data is ready response:

```
    {
        "UIResult": {
            "NavigateToEntityPage": false,
            "NavigateToEntityPageOnEdit": false,
            "NavigateToEntityFormName": null,
            "NavigateToEntityName": null,
            "NavigateToEntityId": null,
            "NavigateToEntityInsertDefaults": null,
            "NavigateToUrl": null,
            "DownloadFile": null,
            "ReloadPage": false,
            "Message": null,
            "IsSuccess": false,
```

```
        "Data": "\"{\\\"RealSecuritiesExtended\\\":
[{\\\
"rowNo\\\"
:\\\
"1\\\"
,\\\
"idOrder\\\":\\\"6843675\\\",\\\"documentDate\\\":\\\"2018-
2-13\\\",\\\"creditors\\\":\\\"PF: -PJ: BANK ;
\\\",\\\"debitors\\\":\\\"PF: NAME; PJ: -
\\\",\\\"authorizedUser\\\":\\\"USER
ID\\\",\\\"documentNumber\\\":\\\"2018-
0000000000000000\\\",\\\"goodsDescription\\\":\\\"Alte
bunuri 1 Număr ordine: 1 Categorie: Cont bancar Identificare
bun: ROXXXXXXXXXXXXXXXXXXXX Descriere suplimentară: IPOTECA
MOBILIARA CONSTITUITA IN FAVOAREA CREDITORULUI AVAND CA
OBIECT SOLDUL CREDITOR AL CONTURILOR (SI ASUPRA CARUIA
CREDITORUL DETINE CONTROLUL), UNDE CONTURILE INSEAMNA TOATE
CONTURILE CURENTE, PRECUM SI ORICE ALTE CONTURI DESCHISE DE
IMPRUMUTAT SI CODEBITOR LA CREDITOR SI CARE VOR
INLOCUI/COMPLETA/SUBSTITUI CONTURILE IDENTIFICATE. REFERIREA
LA CONTURI INCLUDE SI DISPONIBILITATILE PREZENTE SI VIITOARE
DIN ACESTE CONTURI. Constituitor persoana fizica #1 Numărul
conturilor bancare: 1  Număr ordine: 2 Categorie:
Universalitati Identificare bun: CONTRACTE DE MUNCA, DE
PRESTARI SERVICII, DE COLABORARE, DE AGENT, DE INCHIRIERE SI
ASIMILATE SAU DIN RAPORTURILE DE PENSIE Descriere
suplimentară: IPOTECA MOBILIARA IN FAVOAREA CREDITORULUI
ASUPRA CREANTELOR, RESPECTIV A VENITURILOR PREZENTE SI
VIITOARE REALIZATE DE IMPRUMUTAT SI CODEBITOR, REZULTAND DIN
CONTRACTE DE MUNCA, DE PRESTARI SERVICII, DE COLABORARE, DE
AGENT, DE INCHIRIERE SI ASIMILATE SAU DIN RAPORTURILE DE
PENSIE, PANA LA CONCURENTA DATORIILOR TOTALE PE CARE ACESTIA
LE AU FATA DE BANCA, CONFORM ACESTUI CONTRACT DE CREDIT SI
CU RESPECTAREA LIMITELOR PREVAZUTE DE LEGE. Constituitor
persoana fizica #1\\\",\\\"updateDate\\\":\\\"2022-2-
7\\\",\\\"filterDescription\\\":\\\"(Numai active) SI
(Nemodificate) SI (DEBITOR Pf cnp
\\\\\\\"
11111111111111
\\\\\\\
"\\\\\\\\"
)\\\
",\\\"
recordsFound\\\
":\\\"
1
\\\
",\\\"
":\\\"1\\\"}],\\\"searchLookupId\\\":\\\"20060260-e298-4b36-
```

```
-4b785-c7f1186d14f7\\b36-b785-c7f1186d14f7\\\"}\"",
        "NavigateToPageNo": null
    },
    "Message": null,
    "IsSuccess": true,
    "ClientScript": null,
    "Serialized": null,
    "ErrorCode": 0
}
```

KeysFin Asynchronous Methods

See below the call examples for the KeysFin asynchronous methods.

Company Payments Incidents (CIP)

Returns information registered in the Payment Incident Central.

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Async",

        "Data": "{  companyCui: "19",  connectorMethodName:
"CompanyPaymentIncidents"}"
    }
}
```

Response:

```
{

    "UIResult": {
```

```
        "NavigateToEntityPage": false,

        "NavigateToEntityPageOnEdit": false,

        "NavigateToEntityFormName": null,

        "NavigateToEntityName": null,

        "NavigateToEntityId": null,

        "NavigateToEntityInsertDefaults": null,

        "NavigateToUrl": null,

        "DownloadFile": null,

        "ReloadPage": false,

        "Message": null,

        "IsSuccess": false,

        "Data": "{"idOrder":"6338210","message":"To verify
you request you need to call FTOS_EXTD_KEYS_GetData_Async
endpoint with searchId=","searchId":"b7a4ac40-9e7b-4de2-
8480-62fbdd09d1bd"}",

        "NavigateToPageNo": null

    },

    "Message": null,

    "IsSuccess": true,

    "ClientScript": null,

    "Serialized": null,

    "ErrorCode": 0

}
```

Legal Cases

Returns information about legal cases involving the company from the portal.just.ro platform.

Call Example

Request:

```json
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Async",
        "Data": "{  companyCui: "14837428", idOrder: "-1",
connectorMethodName: "LegalCases"}"
    }
}
```

Response:

```json
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
        "Data": "{\"idOrder\":\"5936005\",\"message\":\"To
verify you request you need to call FTOS_EXTD_KEYS_GetData_
Async endpoint with searchId=\",\"searchId\":\"65c0f533-
790e-474e-ab07-157601e4e6b9\"}",
        "NavigateToPageNo": null
    },
    "Message": null,
    "IsSuccess": true,
    "ClientScript": null,
    "Serialized": null,
```

```
        "ErrorCode": 0
    }
```

RECOM Status

Returns information from Romania's National Trade Register Office.

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Async",
        "Data": "{  companyCui: "2695680", idOrder: "-1",
connectorMethodName: "RecomStatus"}"
    }
}
```

Response:

```
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
```

```
        "Data": "{"idOrder":"6247777","message":"To verify
you request you need to call FTOS_EXTD_KEYS_GetData_Async
endpoint with searchId=","searchId":"1f67b741-c2f9-4878-
b1cc-887fd2d7ea0a"}",
        "NavigateToPageNo": null
    },
    "Message": null,
    "IsSuccess": true,
    "ClientScript": null,
    "Serialized": null,
    "ErrorCode": 0
}
```

Real Securities (AEGRM)

Returns information from Romania's Electronic Archive For Security Interests in Movable Property.

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Async",
        "Data": "{  companyCui: "19",  connectorMethodName:
"RealSecurities"}"
    }
```

Response:

```
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
```

```
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
        "Data": "{"idOrder":"6247624","message":"To
verify you request you need to call FTOS_EXTD_KEYS_
GetData_Async endpoint with
searchId=","searchId":"6401339f-d3c1-4dec-a5ea-
e6f9aaaea0fa"}",
        "NavigateToPageNo": null
    },
    "Message": null,
    "IsSuccess": true,
    "ClientScript": null,
    "Serialized": null,
    "ErrorCode": 0
}
```

Real Securities (AEGRM) Extended

Returns additional information about investigated companies that are registered in Romania's Electronic Archive For Security Interests in Movable Property Movable, specifically from the Mortgage Notice section. It allows to search for Individual, Legal Entities, or Motor Vehicle Goods debtors or debtors using the following parameters:

- Romanian social security number (CNP) for Individuals

- Fiscal code (CUI) for Legal Entities

- Chassis series for Motor Vehicle Goods

Call Example

Request:

```
{
    "ApiInfo": {
        "Token": "{{access_token}}"
    },
    "Request": {
        "ActionName": "FTOS_EXTD_KEYS_Request_Async",
        "Data": "{  \"entityType\": \"CNP\",
\"entityValue\": \"211111111111\", connectorMethodName:
\"RealSecuritiesExtended\"}"
    }
}
```

Response:

```
{
    "UIResult": {
        "NavigateToEntityPage": false,
        "NavigateToEntityPageOnEdit": false,
        "NavigateToEntityFormName": null,
        "NavigateToEntityName": null,
        "NavigateToEntityId": null,
        "NavigateToEntityInsertDefaults": null,
        "NavigateToUrl": null,
        "DownloadFile": null,
        "ReloadPage": false,
        "Message": null,
        "IsSuccess": false,
        "Data": "
{\"idOrder\":\"6835010\",\"message\":\"To verify you
request you need to call FTOS_EXTD_KEYS_GetData_Async
endpoint with searchId=\",\"searchId\":\"c6d0bf59-
e326-45fd-9137-18ef1f7c8173\"}",
        "NavigateToPageNo": null
    },
    "Message": null,
    "IsSuccess": true,
    "ClientScript": null,
```

```
        "Serialized": null,
        "ErrorCode": 0
    }
```

Using KeysFin Connector in Digital Journeys

Below are the steps used when calling the KeysFin connector.

1. Use the `ebs.callActionByNameAsync` with the FTOS_EXTD_KEYS_Request_Sync parameter when searching for certain information in the digital journey.

2. Based on the search options, the endpoint is called and the search data is returned.

Calling from the Digital Journey Frontend Example

```
let syncList = [
'methodName1',
'methodName2',
]



let asyncList = [
'methodName1',
'methodName2',
]

let methodName = ebs.getOptionSetItemNameById
('ConnectorName', formData.model.connectorName)
let companyCui = formData.model.companyCui ?
formData.model.companyCui : ''
```

```
if (companyCui.length > 10) {
    ebs.showMessage("Company CUI max length", "warning")
} else {
    let methodType = getSyncAsync(methodName)

    switch (methodType) {
        case 'sync':

            ebs.showLoadingPanel()


            ebs.callActionByNameAsync('FTOS_EXTD_KEYS_
Request_Sync', {
                companyCui,
                connectorMethodName: methodName,
                searchId: formData.id,
                city: formData.model.city,
                county: formData.model.county,
                companyName: formData.model.companyName
            })
                .then(function (result) {

                    if (result.UIResult) {

                        let uiResult = result.UIResult

                        if (uiResult.Data) {

                            let message = uiResult.Data

                            if (message.error) {

                                ebs.showMessage
(message.message, 'error')

                            }
                        }
                    }

                })
            break

        case 'async':
            ebs.callActionByNameAsync('FTOS_EXTD_KEYS_
Request_Async', {
```

```
                    companyCui,
                    connectorMethodName: methodName,
                    searchId: formData.id,
                    idOrder: "-1"
              })
              break

          default:
              ebs.showMessage('Method does not exists',
    'error')
      }

  }


  function getSyncAsync(method) {
      method = method.toLowerCase()

      let newSyncList = syncList.map(function (syncMethod) {
          return syncMethod.toLowerCase()
      })

      let newAsyncList = asyncList.map(function (asyncMethod)
  {
          return asyncMethod.toLowerCase()
      })

      if (newSyncList.indexOf(method) !== -1) {
          return 'sync'
      }

      if (newAsyncList.indexOf(method) !== -1) {
          return 'async'
      }

      return 'method not Found'
  }
```

Request Responses

The below tables show the API returns for each request made using the KeysFin connector. There two types of errors returned:

- Internal FintechOS errors

- Errors from the KeysFin platform

The errors are detailed below.

> **NOTE**
> When an error is encountered the error status value is `true`.

Internal Errors

Error Status	Error Message	Description
True	Method does not exists	Displayed when an inserted method does not exist.
True	Company CUI max length	Displayed when CUI (fiscal code) length is greater than the approved length.
True	Something went wrong, please try again.	Displayed for unexpected errors.
True	No data has been found for this company	Displayed when no data has been found for searched company and KeysFin returns a blank response without errors.
True	Unexpected error occurred	Displayed when an unexpected error occurs.

KeysFin Errors

> **IMPORTANT!**
> Based on different scenarios, the KeysFin platform returns certain errors.

FintechOS captures these errors but the exact error message is not displayed.

Error Status	Error Message	Description
True	The company has no data regarding ultimate beneficial owner' structure!	Displayed for RBR Check and maybe other methods.
True	The company does not exists in our database!	Displayed for all methods.