

TASE Data Hub

הבורסה לניירות ערך תל אביב
TEL AVIV STOCK EXCHANGE

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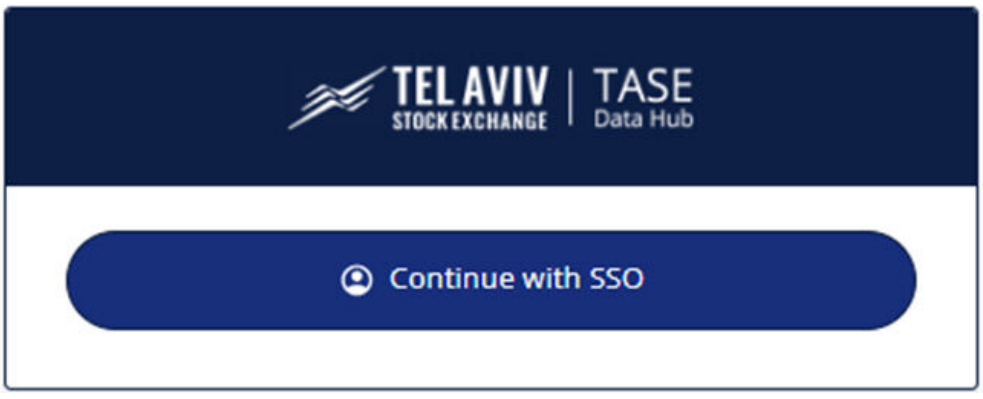
01.About the System

The TASE Open API system is offered as part of the services of The Tel-Aviv Stock Exchange that are designed to grant the various investors direct access to a wide range of capital market data products via an application programing interface (API).
The system provides easy and flexible access to TASE's databases and to other databases of the local capital market, containing on-line, current and historical data. The Product Catalog offers information on securities, public companies, indices, mutual funds, activity of capital market participants, and more.

The data products at TASE were designed to address the various needs of local and international investors, such as: public institutions, public companies, back offices and middle offices, developers of apps and IT systems, traders, investors, algorithmic trading companies, and anyone that needs easy access to integrative data from TASE. The information that is available in the system facilitates, inter alia, the formulation of trading strategies and models, more effective management of financial products, analysis of data and historical trends, and more.

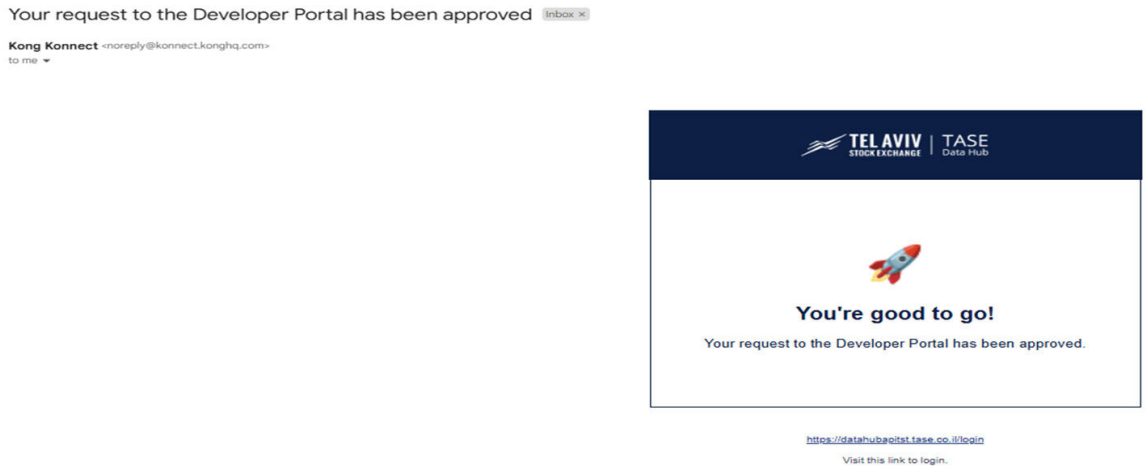
02.Registration to the System

Logging into the Developers' Portal of TASE requires registration.
In the registration process, a registration window will pop up. Customers that have an account on the TASE websites can log in using their account details.



After the log-in, the registration screen will pop up, at the conclusion of which a verification email will be delivered. Thereafter, access will be granted to the portal and a conformation email will be delivered.

Thereafter, access will be granted to the portal and a conformation email will be delivered. The user needs to click the link to the Developers' Portal included in the email.



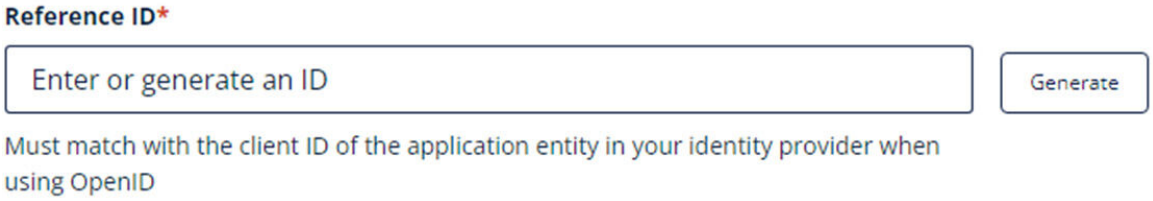
Once the registration stage has been completed, the user can peruse the catalog and structure of the products and submit an application to register for a product. The registration application is directly delivered to the Data Sales Team, which will contact you after you open an application.

03. Setting Up an App in the Developers' Portal

Once registration has been completed, an app needs to be set up in order to register for products and to be assigned an API Key for access to the various data products.
To set up an app, in the top right-hand corner of the screen click on 'User Name' and then open the 'My Apps' menu. Proceed to click on the 'New App' button:



Select an app name (mandatory) and a description (optional)
Then click 'Generate' to generate a unique identifier for your app



To complete the set-up of the app, click 'Create'.

04. Product Registration Application

In this stage, you can go back to the Product Catalog, select a product and submit a registration application.
After clicking on the registration application (Register for – Product Name), you need to select the app for which you would like to register and click the application submission button (Request Access). This will open a tab indicating that the application is being reviewed and is being delivered directly to the Data Sales Team, which will contact you shortly.

Important Note:
Some data products available through the TASE Developers' Portal are paid products that require commercial approval prior to activation.
Submitting a registration request through the portal does not automatically grant access to these products.

To complete the registration and activation process for paid products, please contact the Data Sales Team at: marketdatateam@tase.co.il.

For an overview of available products and their pricing, please visit the TASE Data Hub Product Catalog at:
https://store.tase.co.il/he/categories/4

05.Creating an API Key

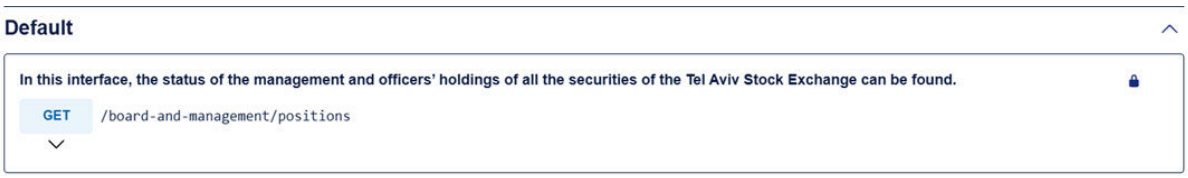
Once the app has been set up, a screen will pop up with the app's details. To create an API Key, click on '+Generate Credential' then assign a name of your choice to the credential and click on 'Generate'.
A screen will pop up containing the API Key. Click on 'Confirm & Copy' to save the API Key to the computer's memory.

Please be advised:
The API Key must be kept in a secure location.

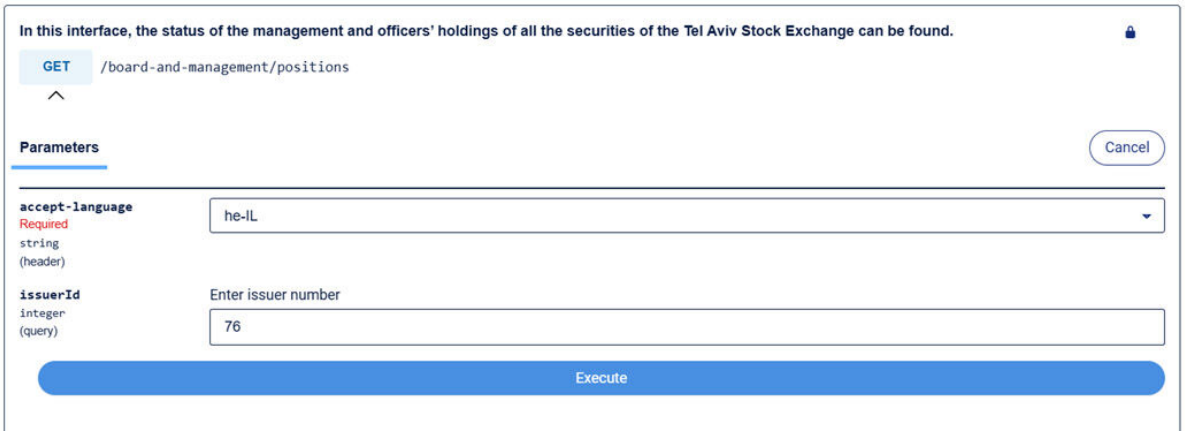
06. Initiating an Application to the API Interfaces

To start working with the API interfaces, an application needs to be initiated, using the following stages:

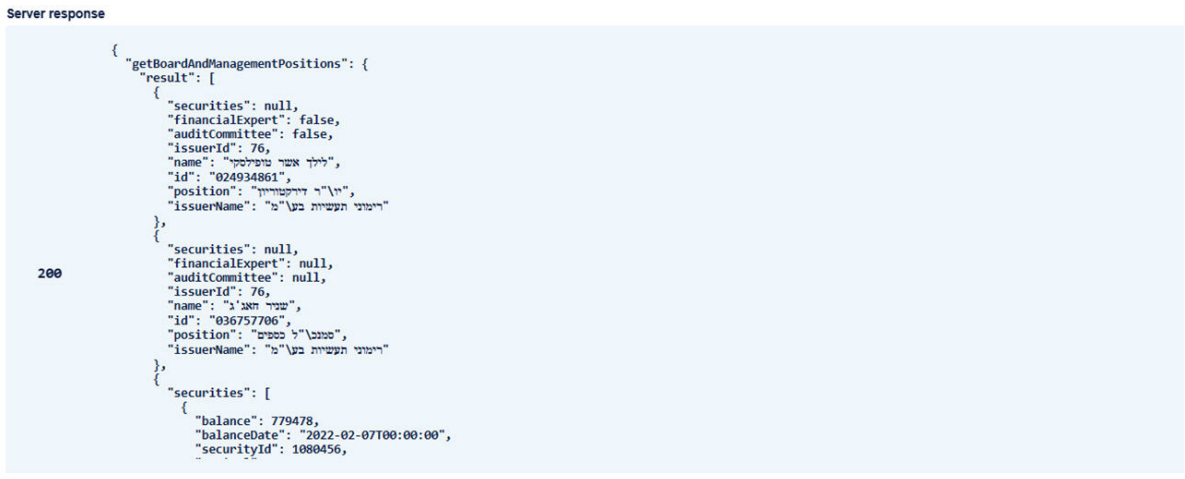
On the product page, click 'Authorize'. This will open a window for you to enter the API Key.
Enter the API Key, click on 'Authorize' and then click on 'Close'.
API Application Through the Developers' Portal:



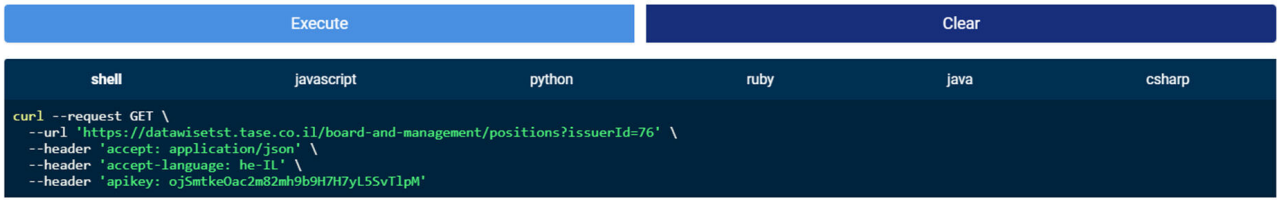
Click on the 'Get' button or on the arrow appearing below it, then click on 'Try It Out'. This window will then open:



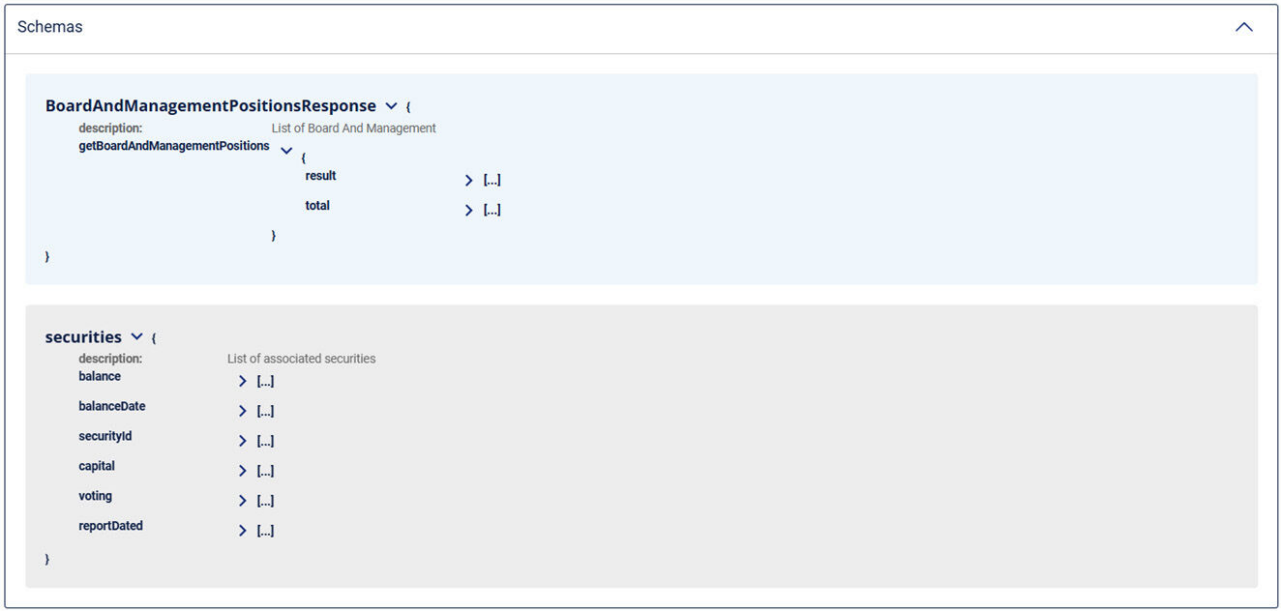
You can change the language as well as the various parameters, if any.
Click on 'Execute'. The interface will then issue the following response:



In addition, you can view sample codes in various programing languages for making API inquiries:



For each interface, you can view the data chart produced from the API:



In addition, for each API product you can view the specification of data under the tab 'Data Specification' on the left-hand menu. The data specification presents the product history, where available, the data updating schedule and the type of data included in the product.

07. Password Reset

You can reset your password on the login page by clicking on 'Forgot Password'. you will then receive instructions for changing the password.

08. API Key Recovery

The system allows its customers to create a new API Key (without re-registration for the product), using the following steps:

1. Go to 'My Apps' in the menus ruler
2. Click on the relevant app
3. By clicking on '+Generate Credential' you can be assigned a new API Key, which you need to save, and that you will now use for making API calls.
4. After the API Key has been generated, you can go to the 'Authentication' tab in the apps' environment.

* It should be noted that the old API Key cannot be recovered. It can be revoked by going into settings: ⚙ and clicking on 'Revoke'.
In addition, when deleting the old API Key make sure that you are not deleting the newly generated API Key.
If the old API Key is not revoked, as above, it can still be used to make API calls. Therefore, we recommend to revoke the old API Key.

09. Examining the Number of Calls and Analyzing the Activity of the App:



The number of calls that the app makes to the API interfaces and the analysis of the app's activity can be found in the app area, under 'View Analytics'.

Rate Limits and Burst Limits:

To ensure optimal system performance and stability, all API interfaces are subject to rate limiting. Unless otherwise specified in the product documentation, the following limits apply globally across all products:

- **Rate Limit:** 10 requests per 2 seconds
- **Burst Limit:** 10 requests per 2 seconds

If these limits are exceeded, the system will return an **HTTP 429 – Too Many Requests response.**

10. Error Message Codes and API Explanations:

The TASE Data Hub system conforms to REST API standards. Therefore, the status codes received in the response are REST API compliant.

11. Contact information:

If you encounter any difficulties in the process, please contact API Support at: apisupport@tase.co.il