



XQ Property Valuation

User Guide

Version 1.0.6 for Windows

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Data organization

Database and users

Single-user database

After the first installation, the application runs in single-user database mode by default. A single-user database means that the database files, which contain all of the application working data (i.e. dictionaries, projects and analyses, users, report templates) are located on the user's workstation under the user's account and are not accessible to other users under the application.

You may switch the connection to single-user database mode at any time, if you're working in the multi-user database (see connection settings). Also, the application will start in the single-user database mode when the multi-user database is not available.

In the single-user database running mode, the user permissions and global roles do not apply, any user may create new projects, analyses, edit and delete data in the database and extract any reports from the application without limitations.

In the future versions of the application it will be possible to export the full analysis in the proprietary XQ format and import it to another database. However, the projects in the corporate database will be protected and will require a special permission by the supervisor to export the full analysis.

"

How to tell in which database mode the application is running?

When the application is running you can check the right bottom corner of the application window to see the connection information, which contains your user name and the database connection mode. The green indicator shows if the connection is active (bright green) or inactive (dim green). The user is identified as the current Windows Session user, i.e. `UserName@ComputerName`, or, when the user is logged in to the domain, `UserName@Domain`.



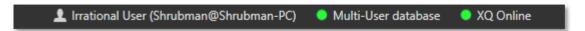
You may switch the connection to multi-user database mode at any time, if you're working in the single-user database mode (see Connection settings). Also, the application will start in the single-user database mode when the multi-user database is not available.

Multi-user database

When the application is running in single-user database mode, the user may switch to a multi-user database in order to be able to collaborate with your team. In the multi-user environment any changes that you make to the data will be visible

and accessible to editing by other users, subject to permission settings (see Project members) and your user type (see User types).

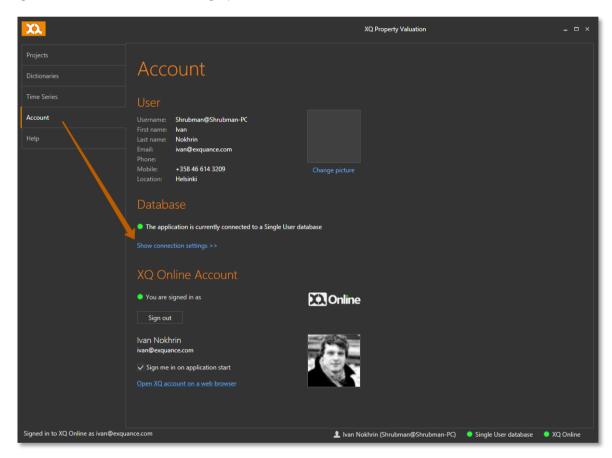
The status bar in the right bottom corner of the application window will reflect an active connection to a multi-user database and will show your user name as it is specified in your network. The user is identified by the full username, i.e. `UserName@Domain`.



You may switch the connection to single-user database mode at any time, if you're working in the multi-user database (see Connection settings). You can connect to multiple multi-user databases (one at a time) by changing the connection settings (subject to SQL Server logon settings).

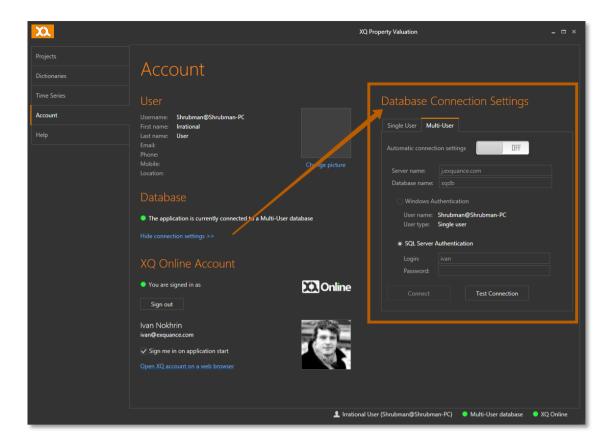
Connection settings

To change the database connection settings, press the home menu button and select `Account`



Then on the account page, press 'Show connection settings' option to view the database connection options and settings. The 'Database Connection Settings' page will automatically display the tab corresponding to your current database mode.

If you're connected to a single-user database, and you wish to switch to the multi-user mode, click on the `Multi-User` tab.



You can slide the `Automatic connection settings` switch to `On` position to attempt to read connection settings set up by your IT administrator.

"

Where can I see which database I'm currently connected to?

In the `Multi-User` tab you need to make sure that the `Automatic connection settings` is switched to `Off` position in order to see the connection details of the database to which you are currently connected.

If you would like to connect to another multi-user database, you need to input the connection details (server name, database name, and credentials) and press the `Test Connection` button. If the connection is successful, the `Connect` button will become enabled.



When you press the `Connect` button, the application will prompt you for a permission to restart. All your current work will be saved automatically before restarting.

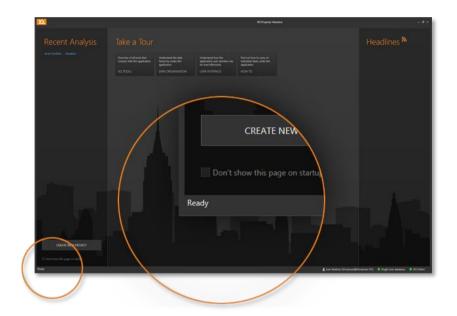
In the future versions of the application changing the database connection will be possible in runtime, without restarting.

Saving and synchronization

In a multi-user environment, all users who are simultaneously logged in to the database may see and/or edit each other's input, subject to project membership and permission settings (see Project members).

At any time, while working in the application may press `F5` (or `Ctrl+S`) to apply his own latest changes and pull all the recent changes from the shared database. If the user doesn't have a permission to change the analysis data, he can still make changes, but those changes will be visible only to him and will not be saved to the shared database.

Depending on the volume of your recent changes, it may take a few moments for the data to be synchronized. You can see the status bar in the bottom left corner of the application screen for messages `Synchronizing...` when the data saving and reading is in progress and `Ready` when it's done.



It is recommended that the user synchronizes often to make sure the current working context is up-to-date, especially when there are many users working on the same analysis. It is important to remember that any latest changes of the same input data will prevail.

In the future versions of the application it will be possible to set up auto-sync function which will be saving the user's changes at a given time interval, or, alternatively, synchronize every time anybody (including the user himself) saves changes to the shared database.

User types

User types or global roles are defined by the system administrator. Based on the global role, the user will have certain privileges in the application which allow to read data, edit data, and sign off (and lock for changes) complete analyses. These privileges cannot be changed from within the application and they are different from permissions which are set by project owners and project managers on project level (see Project members).

Valuator

The **valuator** user type suggests that the application be used by a valuation department specialist who is typically involved in a broad range of business activities such as providing an insight on property market segmentation and trends, assessing present market value of existing and to-be-developed individual properties and portfolios as well as participating in creating appropriate acquisition and exit strategies for end clients. It is expected that the valuator has an in-depth understanding of the valuation standards and techniques, property financial information, such as financial statements, property segment and market sector data. It is also expected that the valuator should have full understanding of wider real estate business information such as relevant economic data and political events.

In the application, users with valuator privileges have full edit rights and can create and alter projects, analyses, property data, market and property assumptions, etc. A valuator may be assigned a 'supervisor' role by a supervisor user for a particular project (see Project members), then the valuator can sign off (and lock for editing) completed analyses and extract reports from the application application. A valuator without a 'supervisor' role can extract reports only for previously signed off analyses (see Supervisor).

Valuators are skilled to examine and interpret data from different sources to understand the impact of internal and external factors on property market value. The valuator is expected to research primary property data and relative market data, and create a valuation model to make a comprehensive valuation report compliant with industry general standards and local valuation standards to the end clients.

Researcher

The **researcher** user type suggests that the application be used by a specialist in the research department or by a specialist responsible for collecting aggregated data for statistical and other purposes, including publishing such data to third parties. Researcher shall have restricted access to aggregated property information, imagery, key assumptions, averages and ratios, interactive maps with geolocation data, and will be able to upload market assumptions based on the research data (subject to approval by a supervisor).

A researcher cannot be granted permissions to add new projects or analyses or edit the data in the application.

Supervisor

The **supervisor** user type suggests that the application be used by a valuations director or by an executive-level personnel who is responsible for overseeing the appraisal assignment, communicating and defending the valuation results to the end clients.

In the application, the supervisor has a right to delegate supervision (on a project-by-project basis) to other users (see Project members), and to sign off completed analyses. Signing off is a special built-in function allowing to lock the analysis (financial model input) for further editing and hence enable its extraction (into a report file or an online interactive report). The extraction of interim reports and ad hoc export are accessible to valuators at any time, however, the reports will have a non-removable watermark indicating that the extracted report had not been approved by a supervisor (see Report builder).

"

Are these global roles mutually exclusive? Can a researcher be a supervisor at the same time?

The global user roles are not mutually exclusive as far as 'supervisor' user type is concerned. Primarily there are two main global roles: Valuator (data editor and writer) and Researcher (data reader). Supervisor is the additional role to

those, however a user can be assigned only to the supervisor role and have read-only access to the data. Thus the mostly privileged user would have both valuator and supervisor roles.					

Data structure

Project

All the data in the application is organized in projects and analyses (valuations). One project contains one or more analyses. A project is an umbrella term for a series of valuations of the same portfolio of assets. It is possible that the composition of assets inside analyses may change over time (when assets are acquired or sold). Nonetheless, the project contains a set of assumptions which will be used for the valuation (e.g. growth rates, currency pairs etc.)

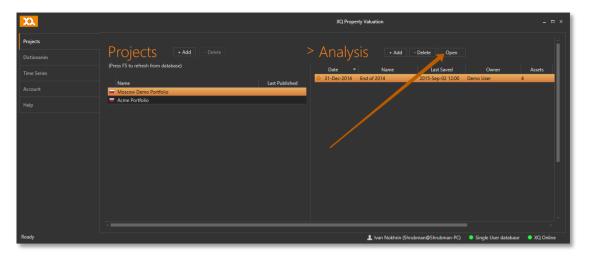
The set of assumptions used for valuation is defined on the project level and is accessible from each analysis under this project. The forecast values for each assumption are set on the analysis level. E.g. an assumption for growth rate may be called "CPI forecast" and it will be available as an indexation in each of the analyses inside the project, but the annual growth values will be set as of each analysis date separately (see Analysis).

To open the project, you need to open one of the analyses contained therein. You may single-click the recent analysis name from the 'Recent' section of the start page.



Or you can press the home menu button and select 'Projects'. In the 'Projects' section you will see the list of projects accessible to you subject to your permission and project membership (see Project members). Single-clicking the project name will allow you to rename it, and double-click will open the most recent analysis in this project. When you

select a project, you will see the tree of analyses contained therein (see Analysis tree). After you select the analysis to open, press 'Open' button in the 'Analysis' section, or double-click on the analysis name.



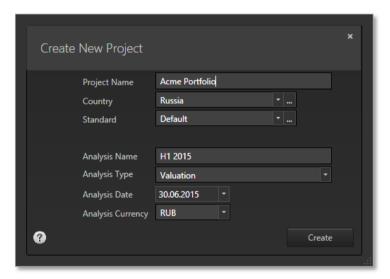
To start a new project, you can press the `Start new project` button on the start screen when the application opens, or press the `+ Add` button in the `Projects` section of the home menu to bring up the `Create New Project` dialogue window.

You will be prompted to enter the project name and project country. Set the country where your project's assets are

located. If you have a multi-country project, you can add other countries later from the `Countries` dictionary (see Dictionaries - Location).

Once you select a country from the list, a default country's standard will be chosen automatically (see Standards and consistency). The standard defines which collection of cash flow templates will be used for your project (see Cash flow template).

Analysis type determines whether the financial model you're about to create will contain only forecasted cash flows (see Cash flow forecast) and asset-related input (Valuation type) (see Assets), or it will have historic cash flows and legal structure with company-related input (Investment Analysis type).



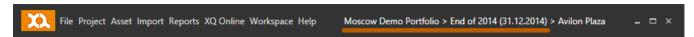
The 'Investment analysis' type is not accessible in XQ Property Valuation application.

Analysis date means that all the assumptions you make under this analysis will be valid as of this date, so as the cash flows will be forecasted from that date forward (see Analysis).

Analysis currency means the currency which will be automatically set as default input currency and valuation display currency. The currency will be automatically selected based on the country you chose, however if you set a different currency here, the country's default currency will be nonetheless added to the project and you can use it as input currency, but you will need to provide FX rates forecast for conversion (see FX rates).

When you press the Create button, your new analysis within the new project will be created and automatically open for further editing assets and assumptions. If you wish to immediately share the newly created project with your colleagues, press the Home Menu button Home Menu Button and navigate to Members section for the project to add new project members (see Project members).

When the analysis is open, you will see the project's name and the analysis name in the window title of the application.



Navigate to the 'Project' tab in the main application window. The 'Project' tab contains the sub-tabs for assumptions and the 'Project dashboard' for aggregate output (see Project dashboard).



The 'Project' tab also has the 'Input Data' window which holds general data about the project and the analysis which you have opened.

Input data



When you have opened a project, in the 'Input data' window you will see and will be able to edit (subject to your permission and role) the project's title (Name and full name) and the same of the currently open analysis.

In the general section for the analysis you can also set the `Analysis Currency` which will be set as the display currency for values in the `Valuation model` (see Valuation model).

Changing the project's title will affect all of the analyses and will be used in the reports (see Report builder).

Project members

For each user the list of projects is populated with projects where the current user is an owner or a member. The user automatically becomes a project member when he creates a new project.

Current project owner (author) as well as project members (those users who will see the project on their application's project list and hence will be able to open analysis for reading and/or editing) are visible under the project list on the `Members` section. The `Members` section is only visible in a multi-user database mode.

Each project must have an owner and every project member can have the following privileges:

'Manager' - means the project member can add, remove, and change permission settings of other project members (except for the project owner, his permission settings cannot be changed and he cannot be removed from project members, unless the ownership is delegated to another project member). The 'Manager' privileges can be changed by clicking the checkbox in the column 'Manager' on the members list in the 'Members' section.

'Supervisor' - means the project member has privileges to sign off completed analyses and lock them for further editing. A user must have a global supervisor role (see User types) in order to assign another project member to be a supervisor for a particular project. By default, when a user with the global supervisor role is added as a member to a project, he is granted the supervisor privileges for the particular project, however the supervisor may assign one (or more) other project member(s) to be supervisors within one project.

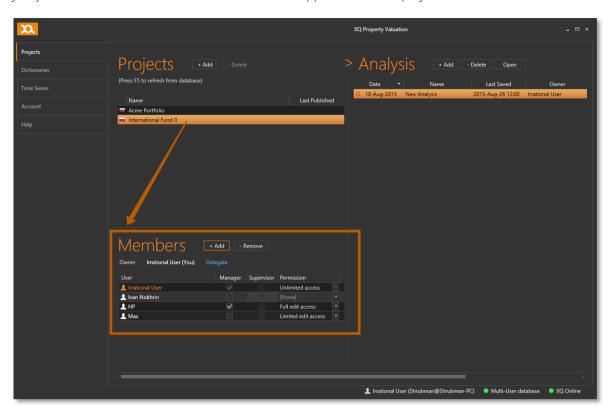
'Permissions' - means a set of permissions allowing users to edit and manipulate the data inside the analysis. Only the project managers with the privilege to 'Set permissions for project members' can change the permissions set for project members other than themselves. When the user is a project member with 'Permissions' set to '(none)', such user will see the project on his project list and can open any analysis inside that project, but will not be able to save any changes to the existing data inside the analysis, nor to add new objects (assets, properties, etc.) in that analysis. A user with no permissions will not be able to extract any report or export any data from the application. The permission sets (Unlimited access, Full edit access, and Limited edit access) grant the following privileges to project members:

	Permission sets		
Permission	Unlimited	Full edit	Limited edit
	access	access	access
Create a new analysis	ALLOWED	ALLOWED	ALLOWED
Delete an existing analysis created by another user	ALLOWED	ALLOWED	RESTRICTED
Alter input data in an existing analysis created by another user	ALLOWED	ALLOWED	ALLOWED
Export analysis data into a file*	ALLOWED	RESTRICTED	RESTRICTED
Unlock a previously signed off analysis	ALLOWED	ALLOWED	RESTRICTED
Unlock a previously signed off asset	ALLOWED	ALLOWED	RESTRICTED
Push data to the server and/or mobile device(s)	ALLOWED	RESTRICTED	RESTRICTED
Pull data from the server and/or mobile device(s)	ALLOWED	ALLOWED	RESTRICTED
Publish an interactive report on XQ Online*	ALLOWED	RESTRICTED	RESTRICTED
Remove a previously published interactive report from XQ Online	ALLOWED	RESTRICTED	RESTRICTED
Set permissions for project members	ALLOWED	RESTRICTED	RESTRICTED

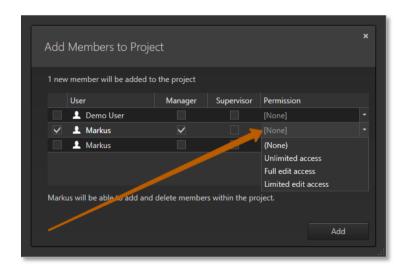
^{*} extracting final reports is only possible for signed off analyses

In the future versions of the application it will be possible to add custom permission sets with various combinations of the listed permissions.

To view the project members, press the home menu button and select `Projects`. Then single-click the name of the project you're interested in. The `Members` section will appear below the project list.



The project ownership delegation will be available in the future versions of the application.



The project members will be listed sorted by user name. The privileges of each project member can be changed directly in the list (subject to your own privileges in a particular project). A project manager can add new members and remove existing members from the project.

To add a new project member, press `+ Add` button in the `Members` section. In the appeared dialogue window you will see all the users who are logged in to the same database as you and who are not yet the project members of the current project.

You can set the privileges (define project

manager(s) and supervisor(s) and select the data edit permission set) for the newly added members directly in the `Add new members` dialogue. After you press `Add` the selected users will be granted access to the current project and will see it on their projects list.

Analysis

`Analysis` is a point-in-time snapshot of the project. Each analysis has its analysis date (valuation date) as of which all the values contained within this analysis are valid. All forecasts and extrapolations will follow the analysis date, the annual periods in the forecasts are calculated as 12 months, starting from the analysis date + 360 days (see Forecast calculation principles).

In this version of the application, it is not possible to change the valuation date after the analysis has been created.

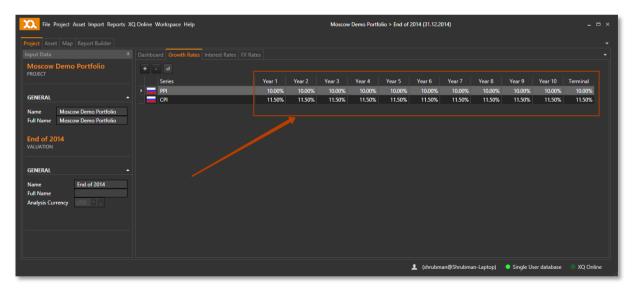
Each analysis can be given a title (name and the full name) to differentiate it easier in the list of analyses. You can enter the analysis title when starting a new analysis (or project) and edit the analysis name at any moment in the `Input data` window under the `Project` tab (see Project).

Input data

The analysis general data is accessible for editing (subject to your role and permission settings) in the `Project` tab's `Input Data` window. Here you can change the analysis title and select the `Analysis Currency`.

You can add a new currency to the project by selecting it from the 'Currencies' dictionary (see FX rates).

Each analysis holds the forecasted time-series values for the assumptions like Growth rates and FX rates. You may edit these values in the corresponding sub-tab under the 'Project' tab. If you add a new assumption (a new growth rate or currency pair), it will appear on all the analyses under this project.



Analysis tree

As point-in-time snapshots of the collection of assets, analyses form a tree, which can be viewed in the `Analysis` section of the `Projects` in the home menu.

Dictionaries

Dictionaries are reference tables which contain items with description of objects, classifications, formats, and other definitions used in the application. When you make changes to a dictionary, the units you modify / add will be accessible to all the other users connected to the same database. Renaming an item which is already used in some valuation will change its appearance everywhere. Any user, regardless of role and permission setting can make changes in the dictionaries. (see Forecast calculation principles).

In the future versions of the application it will be possible to protect a dictionary item from changes as well as change an individual user's permission to restrict editing dictionaries.

It is impossible to delete an entry from the dictionary when it's used in an analysis or in another dictionary. To delete such an item, you should delete first the item referring to it.

In the future versions of the application it will be possible to mark an item for deletion, so that when it becomes free of referring items, it will be removed automatically. Alternatively, there will be added a reference finder, helping users to find which items refer to this item.

Dictionaries are divided into major groups: location, market, real estate, rent roll, valuation, and document.

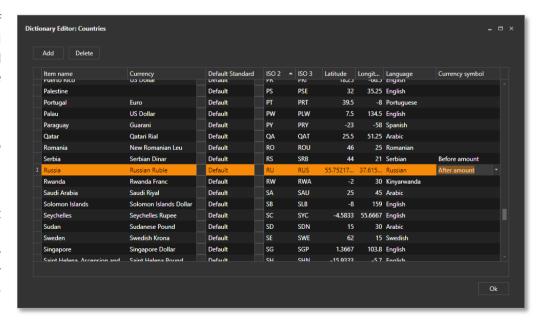
Location

This group of dictionaries contains definitions of the physical assets' and companies' locations such as countries, regions, cities, and microlocations (or submarkets).

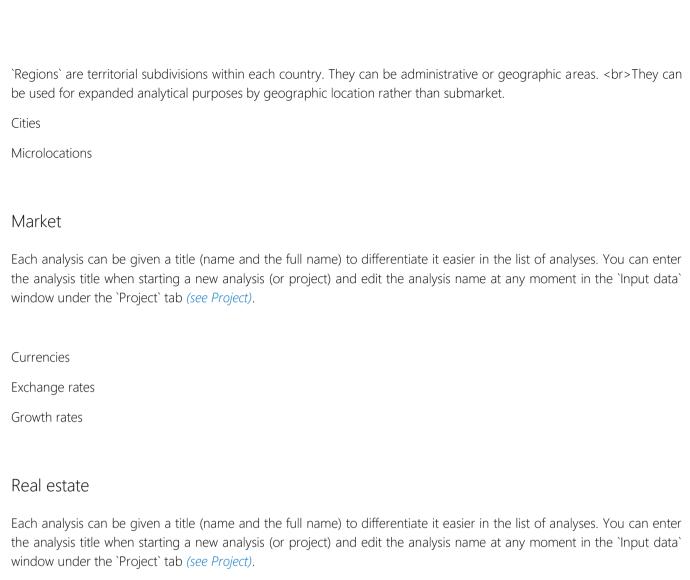
'Countries' is a list of countries with ISO 3166-1 country codes (alpha-2 and alpha-3). Countries have default currencies, standards, languages, etc.

Countries are attributed to projects, analyses and assets.

Each country has a default geolocation (geographical center of the country or, the capital city) and a map layer shape to visualize country-specific indicators.



Default standard defines which Cash flow template will be selected by default when a new asset is added in that country (see Cash flow template). The selected country for a particular project becomes the default country for newly added assets and growth assumptions. Currency of the asset's country is used as a base (payment) currency for calculation purposes (see Project).



Segments

Property types

Property categories

Property classes

Use types

Property use types

Rent roll

Each analysis can be given a title (name and the full name) to differentiate it easier in the list of analyses. You can enter the analysis title when starting a new analysis (or project) and edit the analysis name at any moment in the `Input data` window under the `Project` tab (see Project).

Tenants

Tenant classifiers

Tenant classifcation

Valuation

Each analysis can be given a title (name and the full name) to differentiate it easier in the list of analyses. You can enter the analysis title when starting a new analysis (or project) and edit the analysis name at any moment in the `Input data` window under the `Project` tab (see Project).

Standards

Cash flow templates

Document

The analysis general data is accessible for editing (subject to your role and permission settings) in the 'Project' tab's 'Input

Document types

Publishers

Business process

Input data

Assets

Asset is the target for valuation, so in an analysis assets have the market value (not individual buildings inside each asset). Therefore if you wish to determine a value of a group of buildings which share the operating expenses (and it is impossible to split them), you can combine these buildings as properties inside an asset.

All the input and calculation data for asset is accessible under the `Asset` tab in the application window. Under the `Asset` tab you will see the functional sub-tabs (e.g. Layouts, Rent Roll etc.) and the `Input Data` window which will contain input data for the selected object. Also the functional tabs can change their contents depending on the selected object (e.g. Layouts tab will show floor plan if a floor is selected, or stacking plan of the building if the building is selected, Rent roll will be filtered by the selected property or floor).

The tree of objects under the asset is visible in the 'Navigator' window. You can select an object by single-clicking its name in the 'Navigator'.

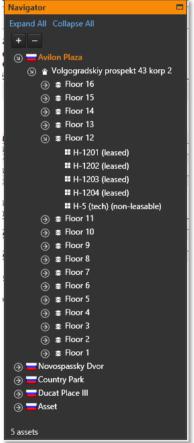
The senior branch of the tree is asset, the navigator displays the basic input data for the asset in the tree (Country and Name).

In the future versions of the application the Navigator window will be able to display a thumbnail of the asset's picture as well as other asset's details (e.g. city, segment, etc.).

The next branch shows the properties contained inside this asset. The icon before the property's name will indicate the type of the property, e.g. means that the property is a building (see Properties).

The next level of the asset tree shows the floors marked by the icon . The floors in turn contain premises marked by the icon . The premises can be added directly to a property without specifying any floor (then <no floor> will be displayed instead of the floor name).

To create a new asset, press in the `Navigator` window.

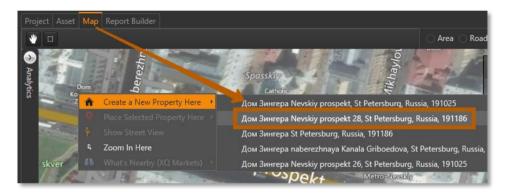




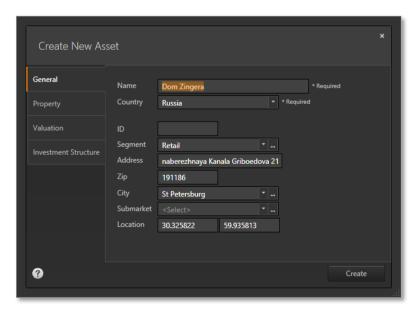
Alternatively you can press the similar button in the project dashboard.



Or you can create a new asset from the geolocation on the map. Switch to the 'Map' tab and right click on the selected location.



Then navigate to the `Create a New Property Here` context menu item. If the location is recognized by the map engine, you will be given a choice of addresses, and in some cases the asset's names.



Select the one that suits your asset and the new asset dialogue window will appear, containing the asset's name, geolocation, and address.

Asset's country defines which currency will be used for conversion of the cash flows generated by this asset. (e.g. in Russia it will be RUB, considering that no matter in which currency income or expense is nominated, the payments are always carried out in RUB).

'ID' is an optional unique identifier of the asset outside of the application (e.g. for synchronization with CRM system).

'Segment' means the primary market segment to which the asset is attributed (e.g. Retail, Office, etc.). 'Submarket' is an optional geographical micro location definition for the area where the asset is located.

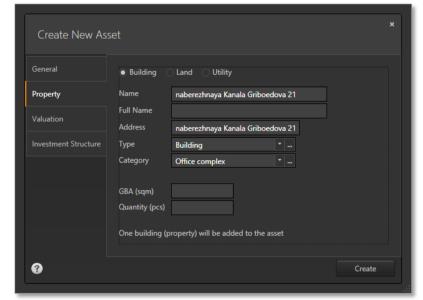
Are all these fields required? Can this data be changed/input later?

The only required fields are Name and Country, because based on the country, all the principle assumptions (growth rates, FX rates, etc.) and the cash flow template (based on the country's default standard) will be determined. It is advised (but not required) that you scan through all the fields before pressing `Create`. You can change almost any of this input data at any time by editing the input data (see Assets – Input data).

An asset cannot be created without a property, so it is required that a property be created when you're creating a new asset. By default, your latest selection will be automatically chosen when you navigate to `Property` section of the dialogue.

There you can select the kind of the property that will be created for your new asset. The choice that you have is building, land, or utility.

You may select a type and a category for the selected property kind. You may define your



Input data



The `Input Data` for asset has different views: General data, Valuation (see Valuation model), and Indexations.

To switch to General data view, press the icon. This view contains the following sections: General, Location, Portfolios, Attachments.

GENERAL

- Name the name of the asset as it will be displayed in the application
- Full Name the full name of the asset for use in the reports (optional)
- ID external identifier of the asset, which corresponds to a unique asset ID outside the application (e.g. in CRM system)
- Segment primary market segment to which the asset is attributed (e.g. Retail, Office, etc.)
- Description verbal description of the asset's market characteristics (can be inserted into reports etc.)

LOCATION

- Address street address of the asset (primary address in the case when asset contains several properties)
- Zip postal code
- City where the asset is located. Cities are selected from the dictionary 'Cities' by country. A new city will be automatically added to the dictionary if it doesn't exist, if asset is created from the map
- Region administrative division of the country (optional)
- Submarket a geographical micro location where the asset is located. Submarkets are defined for each country (optional)
- Longitude/Latitude geo coordinates of the asset's location

PORTFOLIOS

Each asset can be a part of a group of assets in the project, which is called `Portfolio` in the context of the application. A portfolio is simply a virtual tag attached to each asset, so that the user may quickly filter assets in a large project.

ATTACHMENTS

It is possible to attach any kind of file(s), whether it be scanned titles, agreements, images, or Excel models, to any asset. You can select a document type for each file for easy sorting and searching among multiple documents.

To switch to Indexations view, click the icon. You can select a growth profile (or indexation forecast) for Market Rent Growth and Market Value Growth from the list of 'Growth Rates' which you set up for the project (see Growth rates).



Properties

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Input data

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Floors and layouts

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Premises and rent roll

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Market assumptions

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Rent roll

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Operating expenses

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Capital expenditures

Comparable assets

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Assumptions

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Growth rates

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FX rates

Calculation engine

Valuation methods

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Discounted cash flows

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Term and reversion

After the first installation, the application runs in single-user database mode by default. A single-user database means that the database files, which contain all of the application working data (i.e. dictionaries, projects and analyses, users, report templates) are located on the user's workstation under the user's account and are not.

Direct capitalization

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Cash flow forecast

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Cash flow template

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Standards and consistency

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Cash flow items

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Expense items

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Forecast calculation principles

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Forecast periodicity

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Value validity span

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Indexed values

Row formulae

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Custom array

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Valuation model

Asset cash flows

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DCF valuation

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Direct capitalization valuation

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Term and reversion valuation

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Premises cash flows

Auxiliary time series

Output and reporting

Dashboards

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Project dashboard

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Asset dashboard

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Layouts

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Property layout

Floor playout

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Export to Excel

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Table export

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Valuation model export

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Report builder

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Composite reports

Report template design

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Analysis-to-analysis comparison

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Interactive reports online

Terms

- Glossary
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