



## **VEO Design Studio**

### **Client Application Programming Interface (API)**

#### **Features and Functionality**

## **OVERVIEW**

As a client of VEO Design Studio, you are entitled to gain access to information and functionality via the VEO Design Studio Application Programming Interface (API).

Generally speaking, APIs enable a company to expose its application's data and functionality to external developers. This allows services and products to communicate with each other in an automated fashion over the internet to leverage their data and functionality.

The VEO Design Studio API provides you with programmatic access to retrieve much of the information generated for your homebuyers during their interaction with VEO as well as to communicate information to VEO about your systems and homebuyers.

This guide describes the capabilities of the VEO API at a high level. For more detailed, technical documentation, please see the VEO Design Studio API Technical Manual.

## **ORGANIZATION**

The API is organized in logical sections by the various objects managed by the VEO Design Studio system and its functional modules:

<b>Section</b>	<b>Description</b>
Tenants	One or more homebuilder divisions. Homebuilders are typically segmented by cities or regions, each of which may be assigned a tenant within VEO.
Elevations	One or more plan elevation labels (A, B, C, etc.) offered by a homebuilder division.
Catalog Options	The collection of products offered by the homebuilder division. Examples include appliances, plumbing and lighting products. Estimated items, including flooring and countertops are typically stored separately in VEO.
Plans	The collection of plan names offered by the homebuilder division.
Homebuyers	Individual homebuyers that have been registered in VEO Design Studio, either in the application or via the API.
Homebuyer Plans	Floor Plans chosen by homebuyers, either in the application or via the API.
Option Pricing Selections	Homebuyer selections made for budgetary purposes in VEO's Option Pricing module.

Design My Home Selections	Homebuyer selections made for budgetary purposes in VEO's Design My Home pricing and visualization module.
Sessions	Discrete containers describing the selected community, series, plan, job, address, lot, block, elevation and other information. Homebuyer selections are stored in sessions.
Session Selections	Designer / Homebuyer selections for a session.

## FEATURES

The API contains one or more programmatic methods for each section, each of which either accepts or returns data from or to the calling program.

Section	Method	Type	Description
<b>Tenants</b>	/tenants	Get	Returns a list of all tenants to which the API caller has access.
<b>Tenants</b>	/tenants/ {tenant id}	Get	Returns detailed information about a tenant given a tenant id.
<b>Elevations</b>	/tenants/ {tenant id}/elevations	Get	Returns a list of elevations given a tenant id.
<b>Catalog Options</b>	/tenants/ {tenant id}/catalogOptions	Post	Allows clients to request price and/or description updates to catalog option (non-estimated products) given a tenant id and catalog option information.
<b>Plans</b>	/tenants/ {tenant id}/plans	Get	Returns a list of valid plans given a tenant id.
<b>Homebuyers</b>	/tenants/ {tenant id}/homebuyers	Get	Returns a list of homebuyers given a tenant id.
<b>Homebuyers</b>	/tenants/ {tenant id}/homebuyers	Post	Register a new homebuyer given a tenant id. Information to include in the registration is first name, last name, e-mail address, external id, temporary password and Yes/No directive to send a welcome e-mail.
<b>Homebuyers</b>	/tenants/ {tenant id}/homebuyers/ {homebuyer id}	Post	Registers an existing homebuyer with an existing tenant given a tenant id and a homebuyer id. Updatable information includes external id and Yes/No directive to send a welcome e-mail.
<b>Homebuyers</b>	/homebuyers/ {homebuyer id}	Get	Returns a homebuyer's profile information given a homebuyer id.
<b>Homebuyer Plans</b>	/tenants/ {tenant id}/homebuyers/ {homebuyer id}/plans	Get	Returns a list of plans that are associated with a homebuyer, given a tenant id and a homebuyer id.
<b>Homebuyer Plans</b>	/tenants/ {tenant id}/homebuyers/ {homebuyer id}/plans	Post	Creates a new plan for a homebuyer given a tenant id a homebuyer id. Information can include homebuyer contact information, address information, sales price information

<b>Homebuyer Plans</b>	/homebuyerPlans/{homebuyerPlanId}	Get	Returns detail information describing a Homebuyer Plan.
<b>Homebuyer Plans</b>	/homebuyerPlans/{homebuyerPlanId}/contract	Post	Upgrades a Prospective Plan to a Contracted Plan to enable designer selections.
<b>Option Pricing</b>	/homebuyerPlans/{homebuyerPlanId}/optionPricingSelections	Get	Returns the selections made by the homebuyer in VEO's Option Pricing module for a given homebuyer plan id.
<b>Design My Home</b>	/homebuyerPlans/{homebuyerPlanId}/designMyHomeSelections	Get	Returns the selections made by the homebuyer in VEO's Design My Home module for a given homebuyer plan id.
<b>Sessions</b>	/homebuyerPlans/{homebuyerPlanId}/sessions	Get	Returns all selection sessions associated with a homebuyer plan given a homebuyer plan id.
<b>Session Selections</b>	/sessions/ {sessionId}/selections	Get	Returns <b>detail</b> selection information for both estimated and catalog option items made in a session given a session id.
<b>Session Selections</b>	/sessions/ {sessionId}/selectionsSummary	Get	Returns <b>summary</b> selection information for both estimated and catalog option items made in a session given a session id.