



## 1. Overview

The iVectorOne API allows customers to integrate with a large number of different suppliers via a single API.

### 1.1 Content

There are two calls to support property content retrieval

#### **Property List**

This call will return a list of all properties in the system for the requested supplier

#### **Property Details**

This call will return the full content details for the specified properties

### 1.2 Search and Book

There are four calls to support the search and book capabilities as follows.

#### **Search**

This call takes a list of property identifiers and will return all available results with a total cost. These results will contain booking tokens that must be passed into the pre-book call

#### **Prebook**

This request accepts a booking token from the search response and will confirm the availability and cost of a single property result. The result will include a booking token that must be passed into the book call.

#### **Book**

This request accepts a booking token from the pre-book response and will book the requested property result. It will return a booking reference if successful.

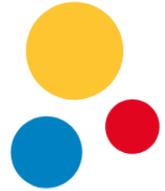
#### **Cancel**

This request accepts a booking reference from the book response and will cancel a property booking.

## 2.1 Property List

Use this request to return a list of all properties.

All fields are mandatory unless marked with a question mark.



## Request

GET [Base URL]/content/property/list

Query Parameter	Data Type	Description
suppliers	String ?	Optional comma-separated list of supplier names to list properties for. If blank all properties will be returned.
lastmodified	Date?	Optional parameter to filter properties to only those modified after a certain date.

## Response

Node	Data Type	Description
PropertyListResponse		
Properties	List ?	The list of properties.
PropertyID	Integer	The unique identifier of the property. This can be used in the GetPropertyContent call to get full content.

## 2.2 Property Content

Use this request to return the full content for specified properties. Returns the content for every third party supplier mapped to that property

All fields are mandatory unless marked with a question mark.

### Request

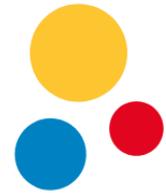
GET [Base URL]/content/property

Parameter	Data Type	Description
propertyids	String	Comma-separated list of property ids to return content for. This is limited to 1000 property ids per request for performance reasons.



**Response**

Parameter	Data Type	Description
PropertyContentResponse		
Properties	List ?	The list of properties.
PropertyID	Integer	The unique identifier of the property.
TTICode	string	The TTI code identifying the property
SuppliersContent	List	A list of supplier-specific content for the property.
SupplierContent	Single	
PropertyName	String	The name of the property.
Address	Single	The property Address
AddressLine1	String	The first line of the address
AddressLine2	String ?	The second line of the address
TownOrCity	String	The town or city name
CountyOrState	String ?	The county or state name
PostCodeOrZip	String	The postcode or Zip code
Telephone	String	The telephone number
Geography	Single	
Country	String	The name of the country the property is in.
Region	String	The name of the region the property is in.
Resort	String	The name of the resort the property is in.
Latitude	Decimal	The latitude of the property.
Longitude	Decimal	The longitude of the property.
Rating	String	The star rating of the property.
Supplier	String	The name of the supplier
Description	String	The description of the property
Facilities	List ?	A list of facilities that the property provides
Facility	String	The name of the facility



MainImageURL	String	The URL of the main image
Images	List ?	A list of Image URLs
ImageURL	String	
ContentVariables	List?	A list of content variables
ParentGroupKey	Int	A parent group of the content variable (Distance = 1, Distances = 2, km=3, AccommodationTypes =4, AccommodationType =5)
Group	Int	A group of the content variable (Distance = 1, Distances= 2, km=3, AccommodationTypes=4,AccommodationType=5)
SubGroup	String?	A sub group of the content variable
Key	String	A subtype of group i.e. AccomodationType
Value	String	A value of subtype i.e. Hotel
Units	Int	A number of units

### 3.1 Search

Use this request to return property results. All fields are mandatory unless marked with a question mark.

#### Request

Get [Base URL]/property/search

They will require the following query string parameters

Parameter	Data Type	Description
ArrivalDate	Date	The first stay date.
Duration	Integer	The length of the stay.
Properties	Integer List	CSV of unique identifiers of the properties to search.



Rooms	List	<p>Pipe separated room pax combinations</p> <ul style="list-style-type: none"> <li>• (adults, children, infants~child ages)</li> <li>• adults - integer, each room must have at least one</li> <li>• children - integer</li> <li>• Infants - integer</li> <li>• Child ages - csv of integer, total must match # of children (infant ages doesn't need to specified)</li> </ul> <p>E.g. rooms=(1,1,1~7) (2,0,0)</p> <ul style="list-style-type: none"> <li>• Is a 2-room search</li> <li>• Room 1 - 1 Adult, 1 child, 1 infant, aged 7(child)</li> <li>• Room 2 - 2 Adults</li> </ul>
NationalityID	String?	The customer nationality ID using ISO 3166-2 country code
Currency code	String?	The ISO 4217 currency code. (Default is set to GBP)
OpaqueRates	String?	A boolean indicating whether opaque rates are supported (Default false)
SellingCountry	String?	The source market country using ISO 3166-2 country code

**Example URL**

/property/search?ArrivalDate=2021-06-06&duration=1&properties=1,2,5,100&rooms=(1,2,1~5,7)|(1,0,0)  
 /property/search?ArrivalDate=2021-06-06&duration=1&properties=1,2,5,100&rooms=(1,2,1~5,7)|(1,0,0)&nationalityID=ES

**Response**

Parameter	Data Type	Description
PropertySearchResponse		
PropertyResults	List ?	The property search results.
PropertyResult	Single	
BookingToken	String	Stores information needed to book the result. Must be passed into the pre-book request.
PropertyID	Integer	Unique property identifier.
RoomTypes	List	List of bookable room results.
RoomType	Single	



RoomID	Integer	Unique identifier of the rooms in the order they were specified in the request.
RoomBookingToken	String	Stores information needed to book the room result. Must be passed into the pre-book request.
SupplierReference1	String	Room Token returned from the third party. Must be passed into the pre-book request
SupplierReference2	String	Room Token returned from the third party. Must be passed into the pre-book request
Supplier	String	The name of the supplier.
MealBasisCode	String	Unique identifier of the meal basis.
RoomType	String	The name of the room type.
SupplierRoomType	String	The supplier's name for the room type.
CurrencyCode	String	The ISO code of the currency.
TotalCost	Decimal	The total cost of the room.
NonRefundable	Boolean	Determines whether the room is refundable.
CancellationTerms	List ?	The cancellation terms for the room, if supported at search.
CancellationTerm	Single	
StartDate	Date	The start date of the cancellation policy.
EndDate	Date	The end date of the cancellation policy.
Amount	Decimal	The cancellation cost.

### 3.2 Pre-book

Use this request to confirm availability and price for search results.

#### Request

POST [Base URL]/property/prebook

Parameter	Data Type	Description
PropertyPrebookRequest		



BookingToken	String	Taken from a property result in the property search response.
RoomBookings	List	A list of room search results to pre-book.
Nationality ID	String?	The customer nationality ID using ISO 3166-2 country code
RoomBooking	Single	
RoomBookingToken	String	Taken from a room result in the property search response.
SupplierReference1	String	Taken from a room result in the property search response.
SupplierReference2	String	Taken from a room result in the property search response.
OpaqueRates	String?	A boolean indicating whether opaque rates are supported (Default false)
SellingCountry	String?	The source market country using ISO 3166-2 country code

## Response

Parameter	Data Type	Description
PropertyPrebookResponse		
BookingToken	String	Stores information needed to book the result. Must be passed into the book request.
SupplierReference1	String	Property level Token returned from the third party. Must be passed into the book request if returned at prebook.
SupplierReference2	String	Property level Token returned from the third party. Must be passed into the book request if returned at prebook.
TotalCost	Decimal	The total price of the property booking.
RoomBookings	List	
RoomBooking	Single	
Supplier	String	The name of the supplier
TotalCost	Decimal	The total cost for the room.
RoomBookingToken	String	Stores information needed to book the result. Must be passed into the book request.
SupplierReference	String	Room level Token returned from the third party. Must be passed into the book request



CancellationTerms	List ?	The cancellation terms for the property booking.
CancellationTerm	Single	
StartDate	Date	The start date of the cancellation policy.
EndDate	Date	The end date of the cancellation policy.
Amount	Decimal	The cancellation cost.
Errata	List ?	
Erratum	String	Any notes relevant to the customer before booking (eg. regional taxes apply, facilities not available, etc)

### 3.3 Book

Use this request to finalise the booking.

#### Request

POST [Base URL]/property/book

Parameter	Data Type	Description
PropertyBookRequest		
BookingToken	String	Taken from the property pre-book response
BookingReference	String	Unique reference to be passed to the third party to identify the booking in their system (if supported)
SupplierReference1	String	Taken from the property pre-book response, must be passed in if returned at pre-book.
SupplierReference2	String	Taken from the property pre-book response, must be passed in if returned at pre-book.
RoomBookings	List	A list of room pre-book results to book
RoomBooking	Single	
RoomBookingToken	String	Taken from a room result in the property search response
SpecialRequest	String?	Any special request for the room



SupplierReference	String	Taken from the property pre-book response
GuestDetails	List	The details of all the guests on the booking
GuestDetail	Single	
Type	String	Must be one of "Adult", "Child" or "Infant"
Title	String	The guest's title, e.g., Mr., Mrs.
FirstName	String	The guest's first name.
LastName	String	The guest's last name.
DateOfBirth	Date	The guest's date of birth.
LeadCustomer	Single	The details of the lead customer
CustomerTitle	String	
CustomerFirstName	String	
CustomerLastName	String	
DateOfBirth	Date	
CustomerAddress1	String	
CustomerAddress2	String ?	
CustomerTownCity	String	
CustomerCounty	String	
CustomerPostcode	String	
CustomerBookingCountryCode	String	ISO Alpha-2 code
CustomerPhone	String	
CustomerMobile	String	
CustomerEmail	String	
NationalityID	String?	The customer nationality ID using ISO 3166-2 country code
OpaqueRates	String?	A boolean indicating whether opaque rates are supported (Default false)
SellingCountry	String?	The source market country using ISO 3166-2 country code



## Response

Parameter	Data Type	Description
PropertyBookResponse		
SupplierBookingReference	String	The supplier's unique identifier of the booking.
SupplierReference1	String	Token returned from the third party. Must be passed into the cancel request if returned at book.
SupplierReference2	String	Token returned from the third party. Must be passed into the cancel request if returned at book.
BookingToken	String	Stores information needed to book the result. Must be passed into the book request.

## 3.4. Cancel

Use this request to retrieve details of a booking.

### Request

POST [Base URL]/property/cancel

Parameter	Data Type	Description
CancelPropertyBookingRequest		
SupplierBookingReference	String	The supplier's booking reference returned in the property book response
SupplierReference1	String	Token returned from the third party. Must be passed into the cancel request if returned at book.
SupplierReference2	String	Token returned from the third party. Must be passed into the cancel request if returned at book.
BookingToken	String	Stores information needed to book the result. Must be passed into the book request.



## Response

Parameter	Data Type	Description
CancelPropertyBookingResponse		
SupplierCancellationReference	String	The supplier's unique reference for the cancellation if returned otherwise supplier booking reference

## 4. API Technical Details

Each API call has its own REST path relative to the base URL, eg. [Base Url]/property/search.

A call to retrieve data, such as the property list function will use the GET method, whereas a call to execute a function will use the POST method.

The REST paths and Http verbs required for each call are detailed in the request sections above.

The API accepts and returns content in XML or JSON. To choose between these pass the values application/xml or application/json in the Accept and Content-Type headers in the request.

The API uses BASIC Authentication, integrators will be provided with credentials separately.

The API will return one of the following response codes:

- 200 - The request was processed successfully
- 400 - The request was invalid (eg. a mandatory field was not provided)
- 401 - The request was not authorised
- 405 - The request used the incorrect Http verb for the call
- 500 - An internal error occurred during the processing of the request