



Listing API for websites

DEVELOPMENT INTRODUCTION

API revision

1

Document revisión

5

Contact

1 Revision history

API Rev	Document		Date	Changes
	Rev	Status		
1	1			
1	2			Clarifications added.
1	3			Update on the diffs response and usage. Clarification for the booking process added. Requirements for Google added.
1	4			Requirements for Google erased.
1	5			Clarification on the how to get the amenities data and additional information. Clarification on how to obtain and manage the prices. Clarifications on the bookings management, explaining the external payment management scenario.

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3 Glossary

UNIT	The minimum independent (with its own key) element bookable.
Listing	An advertiser of one or more units that have the same characteristics: location, size, capacity, amenities and pricing.
Content information	The information of any Listing that is less susceptible to change, such the name, description, photos, number of beds or amenities, i.e.
Pricing structure	<p>The information used to calculate how it costs to book any Listing: daily rates, fees, taxes, discounts.</p> <p>Example:</p> <p>Building 1 has 4 units (Units 1 to 4) each one of them with 2 beds and 2 baths. Building 1 has also 4 units (Units 5 to 8) each one of them with 1 bed and 1 bath. Building 2 has 3 units (Units 9 to 11) each one of them with 2 beds and 2 baths. Building 2 has also 2 units (Units 12 to 13) each one of them with 1 bed and 1 bath.</p> <p>Listing 1 contains: Unit 1, Unit 2, Unit 3, Unit 4, Unit 9, Unit 10 and Unit 11. Listing 2 contains: Unit 5, Unit 6, Unit 7, Unit 8, Unit 12 and Unit 13.</p>

4 Preface

The Listing API is a REST-like implementation based on the HTTP protocol, JSON data encoding and Unicode character encoding, over the secure HTTPS transport.

The API consists of a series of methods invoked by making HTTPS requests on the Kigo Rental Agency REST API servers. These methods can pull information from the Kigo system and can also create and cancel reservations.

It uses the OAuth 2.0 protocol for authentication and authorization.

4.1 What you need to integrate your Kigo Solution with an external system using the Kigo API

In order to get the authorization, you'll need:

Token URL: <https://auth.kigo.net/connect/token>

Client ID: it will be provided by Kigo

Client Secret: it will be provided by Kigo

Scope: cm.api

Once you have the token, you must include it in the Header of the Listing API and Kigo Checkout API calls, "Authorization": "Bearer {access_token}".

4.2 Reporting issues

Please, send any API related questions and issues to api@kigo.net.

Be aware that Kigo IT and support departments will neither check, revise, debug nor correct your code. They will only solve high level doubts and questions about what is possible and what is not using Kigo APIs and generic best approaches.

4.3 Copyright notice

Kigo exclusively owns the intellectual property in this documentation. You acknowledge that you must not perform any act which infringes the copyright or any other intellectual property rights of Kigo.

5 Working with the API

We suggest the following order of operations/API calls:

5.1 Getting the catalog

You will need to pull all the information from the Listings to your own system and store it there in your own database.

You can get the catalog by making a call to the endpoint **/channels/v2/listings**, passing each of these ids as **ccld**, so you will get the list of all the Listings shared with your Kigo account.

5.2 Getting the content information

Once you have the list of Listings Ids (obtained from the first call to of **/listings**) it is time to pull the information of all those Listings calling to the endpoint **/listings/{id}** for each one to import the Content information.

Be sure to add the parameter **options=AmenitiesV2** (that is necessary to get the amenities data) and any of the below parameters to get additional information, depending on your business model:

options=BlockedOutNightsSettings&options=FeeSettings&options=StaySettings&options=RatePlanSettings&options=Rooms&options=IncludeDefaultRateScheduleNights&options=IncludeContractualTermsTranslations&options=Promotions&options=Reviews

5.3 Getting the pricing structure

The endpoint **/listings/{id}** will also provide the pricing structure for each Listing. Although you can use this information to show the breakdown of the rates, fees, taxes or discounts, **it should not be used to calculate the final price of a booking.**

5.4 Getting the LOS pricing

The endpoint **/listings/{id}/lospricing** will provide the price per day and number of guests of a Listing for the requested period. You can store the information provided in your side to use it later for searching by price, i.e.

The API will provide the data in the form:

<date><number of guests><price for one night><price for two nights><price for three nights>.....

repeating the lines from 1 to <number of guests> = capacity of the property

A price of 0 means the property cannot be booked for that specific length of stay.

Example:

```
2022-07-27,1,0,0,308.00,410.00,512.00,614.00,644.60,736.40,828.20,920.00,1011.80,1103.60,1195.40,128
7.20,1379.00,1470.80,1562.60,1654.40,1746.20,1838.00,1929.80,2021.60,2113.40,2205.20,2297.00,2388.8
0,2480.60,2572.40,2664.20,2756.00
2022-07-27,2,0,0,308.00,410.00,512.00,614.00,644.60,736.40,828.20,920.00,1011.80,1103.60,1195.40,128
7.20,1379.00,1470.80,1562.60,1654.40,1746.20,1838.00,1929.80,2021.60,2113.40,2205.20,2297.00,2388.8
```

0,2480.60,2572.40,2664.20,2756.00
2022-07-27,3,0,0,308.00,410.00,512.00,614.00,644.60,736.40,828.20,920.00,1011.80,1103.60,1195.40,128
7.20,1379.00,1470.80,1562.60,1654.40,1746.20,1838.00,1929.80,2021.60,2113.40,2205.20,2297.00,2388.8
0,2480.60,2572.40,2664.20,2756.00

This listing can accommodate up to 3 guest and the price does not depend on their number. Its minimum stay is 3 nights.

NOTE: If the Listing has more than one payment plan, you will need to make separate calls for each payment plan specifying their IDs.

5.5 Getting the availability

The endpoint **/listings/{id}/availability** will also provide the calendar for any given Listing within a range of specific dates. The data provided by it combined with some of the information given by **/listings/{id}**, such as the blocked-out nights or the maximum stay allowed, i.e.

5.6 Keeping the information updated

You need to make calls regularly to the endpoint **/listings/diff** to get the list of the Listings that have changed their content, pricing, availability and/or status information since the last time you called.

Then, you should call **/listings/{id}**, **/listings/{id}/pricing** and **/listings/{id}/availability** to get the changes and update the information on your side.

If a change of the Listing **status** has been indicated, you need to take it out of the catalog, any attempt to retrieve information regarding that listing will fail.

Note: the required parameter **modifiedAfter** is limited to 7 days in the past. Since you must make the calls with a higher frequency than that, this limitation should not cause any issue.

5.7 Bookings management

5.7.1 Booking process

There are two ways to generate a booking, your integration should apply one or the other depending on who will process the payment.

5.7.1.1 Bookings with payments processed in Kigo

In order to create a booking and let Kigo manage the payment, you need to make a call to the Kigo Checkout API, get the breakdown price and the URL needed to complete the booking and provide them to the potential guest from your property page.

Example:

For Testing Apartment 2

Barcelona, Catalunya, ES

Bungalow 5 Bedrooms 4 Bathrooms 3 Guests

Este apartamento moderno y elegante cuenta con una excelente ubicación en el centro de Barcelona. Situado en el popular barrio del Eixample, este maravilloso apartamento está ubicado a pocos minutos de algunos de los principales lugares de interés de Barcelona, como la Plaza Cataluña, el Paseo de Gracia y las Ramblas. Esta zona está muy bien comunicada con transporte público ya que puedes llegar a cualquier otro punto de la ciudad en autobús y metro.

Existe una gran **terraza comunitaria** con mesas, sillas, sofás y tumbonas para que puedas disfrutar de tu estancia y relajarte tras un día visitando la ciudad.

También en este céntrico apartamento, disfrutarás de más comodidades, como una lavadora, secadora, lavavajillas, conexión a Internet y TV por satélite. Realmente, este apartamento luminoso y elegante en Barcelona, es la mejor opción de alojamiento para tus vacaciones lejos de tu hogar.

Amenities

- Not family friendly
- Cycling
- Skiing
- Table tennis (ping po...)
- Mountain biking
- Elevator
- Game console
- Linens provided

€18.70 /night

Check-In: June 27, 2021 Check-Out: July 2, 2021

2 Guests

€18.70 × 5 nights	€93.50
2.0% Tax - 2	€1.87
Cleaning Fee - 26	€26.00
Transporte	€1.00
Total Fees	€27.00
Taxes	€1.87
Total	€122.37

DUE NOW €61.18

BOOK NOW

Ask a Question

This is a typical setup for a property page, every time the potential guest changes the dates or the number of guests, a call to the Kigo Checkout API is made, the page shows the breakdown provided by the API and set the "BOOK NOW" button to redirect the visitor to the Kigo Checkout page properly, using the URL provided by the API:

For Testing Apartment 2

Barcelona, Catalunya, ES

Guests	Check In	Check Out	Due Now	Total
1	27/06/2021	02/07/2021	€61.18	€122.37

Qty.	Service	
5	5 Nights Rent	€93.50
1	2.0% Tax - 2	€1.87
1	Cleaning Fee - 26	€26.00
1	Transporte	€1.00
		Total €122.37

1. GUEST INFORMATION

2. PAYMENT METHOD

FIRST NAME

LAST NAME

EMAIL

PHONE

OPTIONAL SERVICES

☐ Toallas de seda

€1.87

COUPON CODE

SAVE AND CONTINUE

Secured by Kigo, a RealPage company

Kigo Checkout is a platform that protects travelers' and property management companies' private information. With over a decade of providing financial services, we have successfully processed over 50 million online transactions using proprietary SSL and PCI compliant technology, we help the short term rental industry do business online, safely and securely.

Here the visitors can confirm the reservation, indicating their personal information and the data needed for the payment.

Please, take a look at the “KIGO Checkout for KIGO NCM.pdf” document to find out how to work with Kigo Checkout.

5.7.1.1.1 Language

If you want to set the language of the Kigo Checkout webpage, because you have a multi-language site, i.e., you can do it through the param “culture” to any of the accepted values.

5.7.1.1.2 Payment process

You must set how the payment is going to be processed through the “checkouttype” field, values accepted are “creditcard” or “paypal”.

5.7.1.1.3 Redirection after booking

You can set the page to which the guest will be redirected after the booking process through the “successurl”, “failureurl” or “cancellationurl” params.

Note: Take in account that Kigo will not develop any of these pages as they are part of your integration.

5.7.1.2 Bookings with payments processed outside Kigo

If you want to take care of the payment, to create a booking, you need to make a quote first, through the **/quotes** endpoint. The API will provide either a Quote ID or the reason why the booking cannot be accepted. If the booking could be created, you can call the endpoint **/bookings/** and you **must** include the Quote ID in the call.

The reservation will be created according with the data (Listing Id, dates and number of guests) that you pass in the quote call and the API will provide a booking id.

You need to indicate that the field **"paymentCollectionMode"** has the value **"ChannelCollect"**

The API call must not include the field "creditCard"

You can indicate a value for the field "couponCode" if want to apply a promotion of type "Coupon".

5.7.2 Booking details

You can use the booking id to verify the booking has been created properly and get its information through the endpoint **/bookings/{id}**.

The endpoint **/channels/v2/bookings/diff** provides the list of bookings that have been created or changed for a specific period. You can use it to keep track of changes on your bookings if needed.

5.7.3 Booking cancellations

If you need to cancel a booking, you can do it through the endpoint **bookings/{id}/cancel**