# HotelsPro API Documentation

Hotelspro API : Coral

http://technologies.hotelspro.com/

January 31st 2016

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# 1. Overview

## 1.1 About HotelsPro API: Coral

Coral - technology product of HotelsPro - is a searching and booking engine that aggregates and consolidates products from several hotel suppliers, allowing clients to search and book the best available hotels at the best prices through API connectivity.

## 1.2 Purpose of this Document

The purpose of this document is to provide a greater understanding of Coral to its Customers. It is intended to make the HotelsPro's Search & Book Engine Platform available to registered clients through a JSON based Application Programming Interface (API) by describing existing data formats, API communication structures, methods and testing procedures.

To achieve this, an API will be provided to allow various types of client systems to integrate with the Coral system using defined set of published specific JSON messages by using the JSON Schema standards.

To become a Coral affiliate, the client needs to be registered as a HotelsPro agency / affiliate at HotelsPro website www.hotelspro.com firstly.

## 1.3 Environment

During API implementation, HotelsPro will provide a test environment along with login credentials, testing URL and static data.

Our support will always be at your service for your questions.

Please write to xmlsupport@hotelspro.com for credentials and your questions during integration.

Live account and environment will be provided by HotelsPro after approval of customer API implementation. The API supports HTTPS (HTTP over SSL) using authentication. Every account has its own separate username and password to be used as login credentials for both test and live servers.

## 1.4 Connecting

For the implementation process, HotelsPro provides test server information as follows :

- Test URL & endpoint : https://api-test.hotelspro.com

Customer should have proper internet connection to the HotelsPro test URL from http/https ports (80/443).

SSL/TLS standard HTTP communication connection (https) used for security by providing signed by trusted certificate authority public key certificate by Coral.

All requests need to be sent in Unicode 6.1 / UTF-8 encoding. All responses will be similarly encoded.

**Live environment** is available by the link : https://api2.hotelspro.com/api/v2/

**Please note:** For a new account, only test environment is available. After certification process our support team will provide you live credentials.

## 1.5 Hotel Database

Our support team will provide you static hotel database for integration. Provided data consists as following :
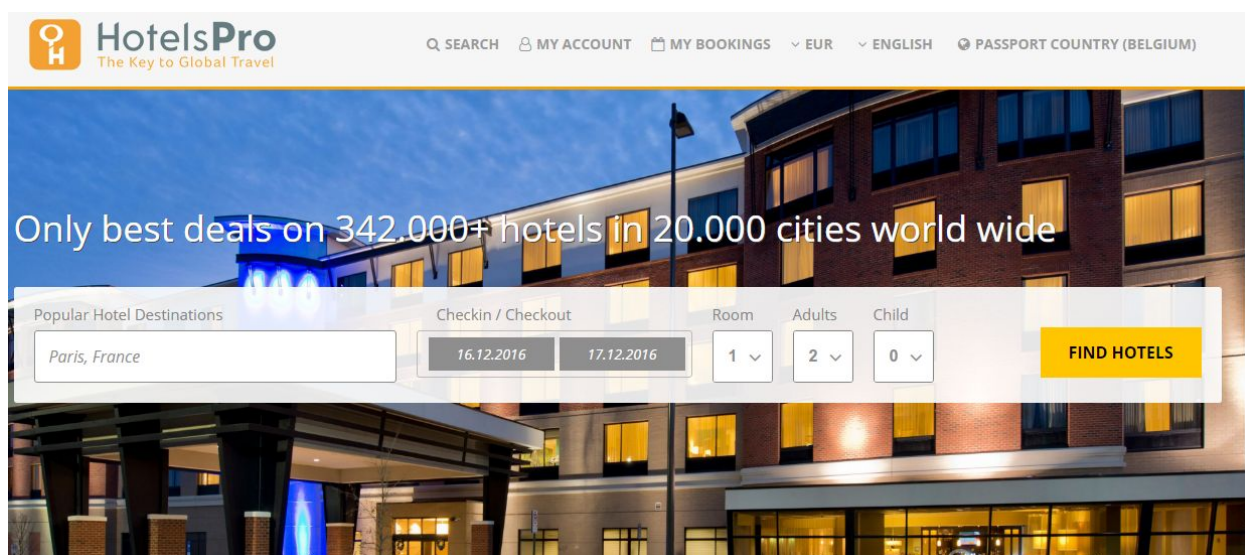
- Hotel Information
- Hotel Chains
- Hotel Properties
- Location Information
- Room Types & Meal Types
- Translated Hotel Content
- Images
- Latest Update Information of Dataset

# 2. Workflow

HotelsPro API (Coral) has 4 steps of flow. Please do not forget that all steps are **must**.



## 2.1 Search



This is the first step of the flow. You can use search method for the real time searches. You must use POST method for any search request.

There are 3 options here if you send a search real time:

**Option 1: Search by  Hotel Code(s)**

You can send multiple hotel codes or a single hotel code with this method. If you have for example 400 Paris hotels, you can send 400 hotel codes at once.  Multiple hotels limit for a single request is 5000.

Please do not forget that if you send 10 parallel searches (10x500 hotels) , instead of one search (1x5000 hotels) , you will be able to get faster response.

Please check the API documentation page for request & response samples.

https://api2.hotelspro.com/docs/dynamic_api/index.html#search

(See Examples in 4.1.1.2)

**Option 2: Search by Destination Code**

You can send us destination search. You must do destination mapping for using this method. Our support team will help you in case of any requests.

**Option 3: Search by Geo Code**

Geo-Code is geographic coordinate system which points the location on the map by latitude and longitude. This method can be used to get hotel list on a specific circle area. This method will return you 200 hotels for now.
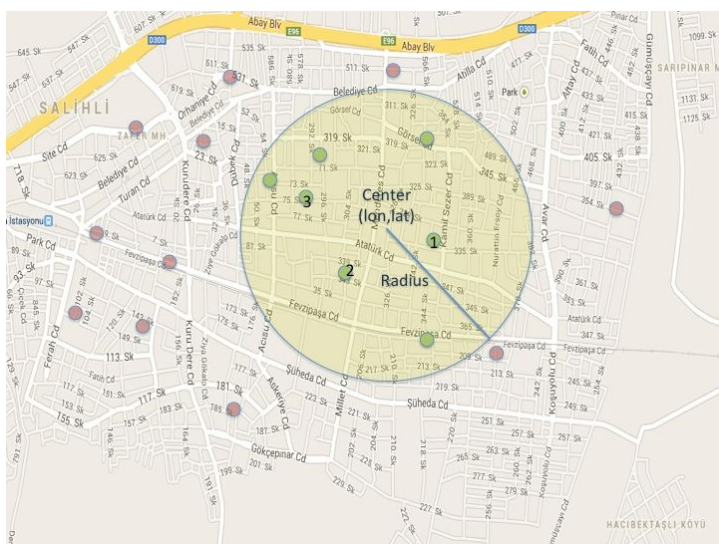


With the response of these methods you can create your listing page.

## 2.1.1 Request Base Parameters

| Name | Value | Required | Description |
|------|-------|----------|-------------|
| format | string | no | Type of the data to be received as a response. JSON is currently supported. Default setting is human readable structured plain html. The default is determined by Accept header of the HTTP Request. |
| pax | custom-list | yes | Indicates amount of persons. A few input examples are as follows : pax = 4 (4 adults) pax = 2,12,11 (2 adults, 2 children with ages of 12 and 11) First integer is the number of adults, and the rest after the |

| | | | first comma will be taken as list of children ages. Can be used multiple times in one search separated with & |
|---|---|---|---|
| checkout | dateobject | yes | Indicates check-out date. Can not be earlier than check-in. The range between check-in and checkout is limited to maximum 30 days. Must be in the formatted as YYYY-MM-DD |
| checkin | dateobject | yes | Indicates check-in date. Can not be greater than checkout. The range between checkin and checkout is limited to maximum 30 days. Must be in the formatted as YYYY-MM-DD |
| currency | string | sometimes | Indicates requested currency of the product prices. Must be one of the Consumer's account currencies. This field is required if multiple currencies are enabled on the Consumer's account. |
| client_nationality | string | yes | Indicates two letter country code of the client nationality. The nationality must refer to a valid country_code within countries table. We will provide you the country codes with static data. |

### 2.1.1.1 Restrictions

- Number of children per room cannot be more than 4
- Number of adults per room must be minimum 1, maximum 6
- Number of passengers per room cannot be more than 6
- Maximum number of rooms in one request : 5
- Maximum child age : 17

### 2.1.2 Response Object Parameters

For search request, **only the price of the cheapest available room is returned for each hotel**. If all prices for any hotel are needed, hotel availability method (will be mentioned in 2.2) can be used.

| Name | Value | Description |
|---|---|---|
| checkin | string | Check-in date. Format : YYYY-MM-DD |
| checkout | string | Check-out date. Format : YYYY-MM-DD |
| destination_code | string | The code resembles that is the equivalent of the searched hotel destination. The unique code refers to destination_code within destinations table. We will provide you destinations table with static content. |
| hotel_code | string | The unique code for the hotel. |
| products | list | List of products and details |
| code | string | Product code of returned product (room) |
| currency | string | Currency code of returned product |

| meal_type | string | Meal type code of returned product |
|---|---|---|
| nonrefundable | boolean | Flag that determines whether the product is refundable within the deadline mentioned in policies. |
| price | decimal | Product price value in currency determined in search query. |
| rooms | list | List of returned rooms. For detailed information and example about room(s) list of the product please see section "Contents of Rooms List" |
| view | boolean | Information about if the room has a view. |
| policies | list | List of cancellation policies. For detailed information and example about policies list of the product, please see section "Contents of Policies List" |

## CONTENTS OF POLICIES LIST

| Name | Value | Description |
|---|---|---|
| days_remaining | decimal | Number(s) of remaining days to check-in date. days_remaining = today - checkin |
| ratio | decimal | Ratio of cancellation charge. The multiplier that will be applied to price to calculate cancellation charge. |

## EXAMPLE POLICIES RESPONSE

```
"policies": [
        {
            "days_remaining": 1,
            "ratio" : "0.45"
        },
        {

            "days_remaining": 7,
            "ratio": "0.01"
        }
    ],
```

## CONTENTS OF ROOM LIST

| Name | Value | Description |
|---|---|---|
| pax | dict | A dict consists of adult quantity, children ages keys. |
| adult_quantity | int | Total number of adults |
| children_ages | list | A list consisting of integers which represent children guest ages |
| room_category | string | Represents the category of the room referring to room categories table. |
| room_descriptions | string | Description of the room |
| nightly_prices | dict | List of prices to pay for each night of the room. Dictionary contains night date and price pairs day by day. Date format is "yyyy-mm-dd" |

| room_type | string | Represents the type of the room |
|-----------|--------|----------------------------------|

**Important Notice:** search/hotel-availability/provision/book endpoints return the rooms data in the

same template above.

## 2.2 Hotel Availability

You can get all up to date availabilities and prices of **all room types**, meal types, cancellation
policy, additional info, of a single hotel. Please do not forget that all steps are **mandatory** in
booking flow including hotel availability step.

With hotel availability end-point you can create your hotel detail page.

This step requires search code which is obtained from search step and hotel code of the
requested hotel.

https://api2.hotelspro.com/docs/dynamic_api/index.html#check-hotel-availability

### 2.2.1 Restrictions

- Hotel availability response is valid for 45 minutes. When you get a code, you have 45
  minutes to go to book step. If you have missed this time, you have to get hotel-availability
  response again for that hotel.

### 2.2.2 Request Base Parameters

| Name | Value | Required | Description |
|------|-------|----------|-------------|
| search_code | string | yes | This is the code from the response of the search request. (code) |
| hotel_code | string | yes | This is the code from the response of the search request. (hotel_code) |

GET /api/v2/hotel-availability/?<search_code>&<hotel_code>

### 2.2.3 Response Object Parameters

| Name | Value | Description |
|------|-------|-------------|
| product_code | string | Product code of returned product. |
| destination_code | string | The unique code for the destination. |
| hotel_code | string | The unique code for the hotel. |

| additional_info | string | Additional information about the room including specific information about product restrictions, rules, warnings etc. |
|---|---|---|
| checkin | string | Check-in date. Format : YYYY-MM-DD |
| checkout | string | Check-out date. Format : YYYY-MM-DD |
| price | decimal | The amount that will be charged for this booking (*) |
| currency | string | Indicates currency of the price. It is optional to send a specific currency option to receive the response price in specific currency. (EUR , USD , GBP etc.). The currency must refer to a valid currency_code within currencies table. |
| hotel_price | decimal | The local price value. |
| hotel_currency | string | Indicates the currency of hotel_price. It's similar type of currency variable. |
| meal_type | string | Meal type code of returned product. |
| supports_cancellation | boolean | Indicates the product whether can be canceled or not over api. This info **can not** be used as cancellation policy. |
| nonrefundable | boolean | Flag that determines whether the product can be refunded when cancelled. Some providers are returning us NULL for nonrefundable flag. You may receive NULL for some products. After 2016-12-01, this flag will not return NULL. |
| view | boolean | Information about if the room has a view. |
| rooms | list | List of returned rooms. For detailed information and example about room(s) list of the product please see section "Contents of Rooms List" |
| pax | dict | A dict consists of adult quantity, children ages keys. |
| adult_quantity | int | Total number of adults |
| children_ages | list | A list consisting of integers which represent children guest ages |
| room_category | string | Represents the category of the room referring to room categories table. |
| room_description | string | Description of the room |
| room_type | string | Represents the type of the room |
| offer | boolean | |
| policies | list | List of cancellation policies. For detailed information and example about policies list of the product, please see section "Contents of Policies List" |
| days_remaining | int | Number(s) of remaining days to check-in date. days_remaining = today - checkin_date |
| ratio | decimal | The multiplier that will be applied to price to calculate cancellation charge. |
| mimimum_selling_price | decimal | The amount that can be sold to end user. |

Please Note:  pay_at_hotel will return 'Null'.  For detailed information you can consult support desk.

For missing cancellation policy you can make a provision request to get cancellation policy.

## 2.3 Provision

Provision method should be used just before booking step, to make sure the price and room is still available after the last executed search and hotel-availability request.  Provision can be used for a single room (product) and response is valid for 600 seconds and during this period, The price offered in provision step is guaranteed for the booking step.

**If the room is no longer available, then we recommend alternative products, to minimize the sale loss and increase conversion rate, please show this recommendation to your end user and make the necessary development.**  See 4.1.5 for more detail and response samples.

### 2.3.1 Restrictions

- Provision response and code are valid for 600 seconds.
- Provision method can be used for a single room (product) only.

### 2.3.2 Request Base Parameters

| Name | Value | Required | Description |
|------|-------|----------|-------------|
| code | string | yes* | This is the code from the response of selected product. |

### 2.3.3 Response Object Parameters

| Name | Value | Description |
|------|-------|-------------|
| code | string | The code of provision request. This code is necessary to go to booking stage and same with the product code. |
| destination_code | string | The unique code for the destination |
| offer | boolean | |
| price | list | The amount that will be charged for this booking. |
| currency | string | Indicates currency of the price. It is optional to send a specific currency option to receive the response price in specific currency. (EUR , USD , GBP etc.). The currency must refer to a valid currency code within currencies table. |

| rooms | list | List of returned rooms. For detailed information and example about room(s) list of the product please see section "Contents of Rooms List" |
|---|---|---|
| pax | dict | A dict consists of adult quantity, children ages keys. |
| adult_quantity | int | Total number of adults |
| children_ages | list | A list consisting of integers which represent children guest ages |
| room_category | string | Represents the category of the room referring to room categories table. |
| room_description | string | Description of the room |
| room_type | string | Represents the type of the room |
| nonrefundable | boolean | Flag that determines whether the product can be refunded when cancelled. Some providers are returning us NULL for nonrefundable flag. You may receive NULL for some products. After 2016-12-01, this flag will not return NULL. |
| supports_cancellation | boolean | Indicates the product whether can cancel or not over api. |
| additional_info | string | Additional information about the room including specific information about product restrictions, rules, warnings etc. |
| hotel_code | string | The unique code for the hotel. |
| hotel_currency | string | Indicates the currency of hotel_price. It's similar type of currency variable. |
| hotel_price | decimal | The local price value. |
| checkin | string | Check-in date. Format : YYYY-MM-DD |
| meal_type | string | Meal type code of returned product. |
| policies | decimal | List of cancellation policies. For detailed information and example about policies list of the product, please see section "Contents of Policies List" |
| days_remaining | int | Number(s) of remaining days to check-in date. |
| ratio | decimal | The multiplier that will be applied to price to calculate cancellation charge. |
| view | boolean | Information about if the room has a view. |
| checkout | string | Check-out date. Format : YYYY-MM-DD |

## 2.4 Book

This method is the fourth and last step of hotel booking flow. The method is used to book a product. Carry the product code which is located in Hotel Availability and Provision response . And also guest information and payment information is used to get. At the end of this method if code is not expired and property information is still valid, booking process will be completed.

**Important Note:** Please use the room description we supply in the booking response and show this description to your final user to avoid from any disagreement.

https://api2.hotelspro.com/docs/dynamic_api/index.html#booking

### 2.4.1 Restrictions

- Time out for booking request is 90 seconds.

### 2.4.2 Request Base Parameters

| Name | Value | Required | Description | Restrictions |
|------|-------|----------|-------------|--------------|
| code | string | yes | Code that have been retrieved from hotel availability response (the same code from hotel availability response is valid for all steps, you can see same code in  provision and booking) | |
| email | string | Conditional* | Guest email address | Must be valid email address |
| format | string | no | Type of the data document that is going to be received as a response. | Only JSON is currently supported |
| name | string | yes | Must be name=1,firstname,lastname,type format (1 refers room number, type can be adult/child) | 200 Characters, max. |
| phone_number | string | Conditional* | Guest phone number. Phone Numbers must be at least 5 digits long and have at least one different digit (ex:5555555555 is not valid) | |
| special_request | string | no | A free text section where the personal making the hotel reservation can make special requests. | 255 Characters, max. |

## 2.4.3 Response Object Parameters

| Name | Value | Description |
|---|---|---|
| code | string | booking code |
| created_at | string | Time of the booking |
| checkin | dateobject | Indicates check-in date |
| checkout | dateobject | Indicates check-out date |
| price | decimal | Total price of the booking |
| currency | string | Currency code |
| client_nationality | string | Indicates two letter country code of the client nationality |
| destination_code | string | The unique code for the destination |
| hotel_code | string | The unique code for the hotel |
| mealtype_code | string | The unique code for the meal type |
| policies | list | Policies list including days_remaining and ratio |
| nonrefundable | boolean | Flag that determines whether the product can be refunded when cancelled. Some providers are returning us NULL for nonrefundable flag. You may receive NULL for some products. After 2016-12-01, this flag will not return NULL. |
| view | boolean | Information about if the room has a view. |
| supports_cancellation | boolean | Indicates the product whether can cancel or not over api |
| status | string | Status of the booking Possible status list; 'Succeeded', 'Failed', 'Cancelled' |
| confirmation_numbers | list | A list dictionaries that has the number of the booking. The names that the booking has been done under and the partner of it. |
| minimum_selling_price | decimal | It is the minimum selling price to the end |
| special_request | string | Given free format text to inform hotel (remember that, it could be unsent) |

# 3. Certification Process

To go to live environment, bookings with below conditions should be completed on test environment.

Certification bookings

- 1 room for 3 adults
- 1 room for 2 adults and 2 children (2 and 3)
- 2 rooms, 1 room for 2 adults and 1 for 3 adults
- 2 rooms, 1 room for 2 adults and 1 child (5) and 1 for 2 adults and 2 children (5 and 7)
- 3 rooms, 1 for 2 adults and 2 for 3 adults each one
- 3 rooms, 1 for 2 adults, 1 for 2 adults and 1 child (3) and 1 for 3 adults

Please provide us the booking codes of each booking and a voucher of one of these bookings.

# 4. Appendix I

## 4.1 Api requests and responses

### 4.1.1 Search

#### 4.1.1.1 Single hotel search

Method : POST

Example : 1 Room -> 1 room for 2 adult

https://api-test.hotelspro.com/api/v2/search/?currency=USD&client_nationality=cn&pax=2&checkin=2016-12-25&checkout=2016-12-26

**Post body parameters**

hotel_code=100e87


Example : 2 Rooms -> 1 room for 2 adult, 1 room for 1 adult and 6 years old child

https://api-test.hotelspro.com/api/v2/search/?currency=USD&client_nationality=cn&pax=2&pax=1,6&checkin=2016-12-25&checkout=2016-12-26

**Post body parameters**

hotel_code=100e87


Example : 3 Rooms -> 1 room for 2 adult, 1 room for 1 adult and 2 children(4,7 years old), 1 room for 2 adult and 6 years old child

https://api-test.hotelspro.com/api/v2/search/?currency=USD&client_nationality=cn&pax=2&pax=1,4,7&pax=2,6&checkin=2016-12-25&checkout=2016-12-26

**Post body parameters**

hotel_code=100e87

#### 4.1.1.2 Multiple hotel search

Method : POST

Content type : application/x-www-form-urlencoded


Example : 1 Room -> 1 room for 2 adult

**Request**

https://api-test.hotelspro.com/api/v2/search/?currency=USD&client_nationality=cn&pax=2&checkin=2016-12-25&checkout=2016-12-26

**Post body parameters**

hotel_code=100e87,9307b,113a52,1179fd,1362c9,19c40d,176cac

Example : 2 Rooms -> 1 room for 2 adult, 1 room for 1 adult and 6 years old child

**Request**

https://api-test.hotelspro.com/api/v2/search/?currency=USD&client_nationality=cn&pax=2&pax=1,6&checkin=2016-12-25&checkout=2016-12-26

**Post body parameters**

hotel_code=19307b,113a52,1179fd,1362c9,19c40d,176cac

Example : 3 Rooms -> 1 room for 2 adult, 1 room for 1 adult and 2 children(4,7 years old), 1 room for 2 adult and 6 years old child

**Request**

https://api-test.hotelspro.com/api/v2/search/?currency=USD&client_nationality=cn&pax=2&pax=1,4,7&pax=2,6&checkin=2016-12-25&checkout=2016-12-26

**Post body parameters**

hotel_code=1018a8,10c7c8,1119f9,111b33,10c96c,100e87,10c2c2,1019ab,100af3,1017d3

## 4.1.1.3 Destination search

Method : POST or GET

Example : 1 Room -> 1 room for 2 adult

https://api-test.hotelspro.com/api/v2/search/?currency=USD&client_nationality=cn&pax=2&checkin=2016-12-25&checkout=2016-12-26&destination_code=19064

**Post body parameters : no parameter**

Example : 2 Rooms -> 1 room for 2 adult, 1 room for 1 adult and 6 years old child

https://api-test.hotelspro.com/api/v2/search/?currency=USD&client_nationality=cn&pax=2&pax=1,6&checkin=2016-12-25&checkout=2016-12-26&destination_code=19064

**Post body parameters : no parameter**



Example : 3 Rooms -> 1 room for 2 adult, 1 room for 1 adult and 2 children(4,7 years old), 1 room for 2 adult and 6 years old child

https://api-test.hotelspro.com/api/v2/search/?currency=USD&client_nationality=cn&pax=2&pax=1,4,7&pax=2,6&checkin=2016-12-25&checkout=2016-12-26&destination_code=19064

**Post body parameters : no parameter**

## 4.1.1.4 Geo location search

Method : POST or GET

Example : 1 Room -> 1 room for 2 adult

https://api-test.hotelspro.com/api/v2/search/?currency=USD&client_nationality=cn&pax=2&checkin=2016-12-25&checkout=2016-12-26&lat=48.858543&lon=2.294502&radius=15000

**Post body parameters : no parameter**



Example : 2 Rooms -> 1 room for 2 adult, 1 room for 1 adult and 6 years old child

https://api-test.hotelspro.com/api/v2/search/?currency=USD&client_nationality=cn&pax=2&pax=1,6&checkin=2016-12-25&checkout=2016-12-26&lat=48.858543&lon=2.294502&radius=15000

**Post body parameters : no parameter**

Example : 3 Rooms -> 1 room for 2 adult, 1 room for 1 adult and 2 children(4,7 years old), 1 room for 2 adult and 6 years old child

https://api-test.hotelspro.com/api/v2/search/?currency=USD&pax=2&client_nationality=cn&pax=2&pax=1,4,7&pax=2,6&checkin=2016-12-25&checkout=2016-12-26&lat=48.858543&lon=2.294502&radius=15000

**Post body parameters : no parameter**

### 4.1.1.4 Search Response

```
{
  "count": 1,
  "code": "20170209_1_3-5-8_0_48_96a5c756e6724839a0bd42dcde48870e_",
  "next_page_code": null,
  "results": [
    {
      "hotel_code": "100e87",
      "checkout": "2017-02-10",
      "checkin": "2017-02-09",
      "destination_code": "20b0e",
      "products": [
        {
          "code": "100e87_239654960475_1_7_2_2_1_0_4288827242_0_3-5-0.20170209_1_3-5-8_0_48_96a5c756e6724839a0bd42dcde48870e_",
          "offer": false,
          "pay_at_hotel": false,
          "price": "73.21",
          "currency": "USD",
          "rooms": [
            {
              "pax": {
                "children_ages": [
                  5,
                  8
                ],
                "adult_quantity": 3
              },
              "room_category": "Suite",
              "room_description": "De Luxe Suite",
              "nightly_prices": {
                "2017-02-09": "73.21"
              },
              "room_type": "TB"
            }
          ],
          "nonrefundable": true,
          "supports_cancellation": true,
          "hotel_currency": null,
          "hotel_price": null,
          "meal_type": "BC",
          "minimum_selling_price": null,
          "view": false
        }...
```

## 4.1.2 Hotel Availability

Method : GET

Request

https://api-test.hotelspro.com/api/v2/hotel-availability/?hotel_code=100e87&search_code=**20170209_1_3-5-8_0_48_835498ae823a43bab1f0c24f24131245_**

Response

```json
{
  "code": "20170209_1_3-5-8_0_48_835498ae823a43bab1f0c24f24131245_",
  "count": 7,
  "results": [
    {
      "code": "100e87_239654960475_1_7_2_2_1_0_4288827242_0_3-5-0.20170209_1_3-5-8_0_48_835498ae823a43bab1f0c24f24131245_",
      "destination_code": "20b0e",
      "hotel_code": "100e87",
      "additional_info": "",
      "checkin": "2017-02-09",
      "checkout": "2017-02-10",
      "price": "73.21",
      "currency": "USD",
      "pay_at_hotel": false,
      "hotel_price": null,
      "hotel_currency": null,
      "meal_type": "BC",
      "nonrefundable": true,
      "view": false,
      "rooms": [
        {
          "pax": {
            "children_ages": [
              5,
              8
            ],
            "adult_quantity": 3
          },
          "room_category": "Suite",
          "room_description": "De Luxe Suite",
          "nightly_prices": {
            "2017-02-09": "73.21"
          },
          "room_type": "TB"
        }
      ],
      "supports_cancellation": true,
      "minimum_selling_price": null,
      "offer": false,
      "policies": [
        {
          "ratio": "1.00",
          "days_remaining": 66
        }
      ]
    }...
```

### 4.1.3 Provision

Method : POST

https://api-test.hotelspro.com/api/v2/provision/100e87_236502331405_1_11_2_2_0_0_663553596_6_6-5-0.2017020 9_1_3-5-8_0_48_835498ae823a43bab1f0c24f24131245_

Response

```
{
  "code": "PFAMHH825RM4",
  "destination_code": "20b0e",
  "offer": false,
  "price": "77.61",
  "currency": "USD",
  "rooms": [
    {
      "pax": {
        "children_ages": [
          5,
          8
        ],
        "adult_quantity": 3
      },
      "room_category": "Suite",
      "room_description": "Family Suite",
      "nightly_prices": {
        "2017-02-09": "77.61"
      },
      "room_type": "FL5"
    }
  ],
  "nonrefundable": false,
  "additional_info": "Family Suite <p><b>Know Before You Go</b> <br /><ul>  <li>This property offers transfers
  "supports_cancellation": true,
  "hotel_code": "100e87",
  "hotel_currency": null,
  "hotel_price": null,
  "checkin": "2017-02-09",
  "meal_type": "RO",
  "policies": [
    {
      "ratio": "0.00",
      "days_remaining": 2
    }
  ],
  "view": false,
  "checkout": "2017-02-10",
  "minimum_selling_price": "78.67",
  "pay_at_hotel": false
}
```

## 4.1.4 Book

Method : POST

Content type : application/x-www-form-urlencoded

**Request**

https://api-test.hotelspro.com/api/v2/book/1018a8_1420082653_1_11_2_2_1_0_1420082669_0_3,0,0~2,0,0~3,0,0.201
61225_1_2~1,4,7~2,6_0_47_d8ee8c3bcd3546cebe814e4ec652e09f_

**Post body parameters**

Parameters for 1 Room -> 1 room for 2 adult

**name=1,test,test,adult&name=1,testa,testa,adult**

Parameters for  2 Rooms -> 1 room for 2 adult, 1 room for 1 adult and 6 years old child

**name=1,test,test,adult&name=1,testa,testa,adult&name=2,testb,testb,adult&name=2,testc,testc,child,6**

Parameters for 3 Rooms -> 1 room for 2 adult, 1 room for 1 adult and 2 children(4,7 years old), 1 room for 2 adult and 6
years old child

**name=1,test,test,adult&name=1,testa,testa,adult&name=2,testb,testb,adult&name=2,testc,testc,child,4&name=2,tes
td,testd,child,7&name=3,teste,teste,adult&name=3,testf,testf,adult&name=3,testg,testg,child,6**

Response

```
{
  "code": "BX8H5AJXVCRW",
  "created_at": "2016-12-06T13:09:35.824Z",
  "checkin": "2017-02-09",
  "checkout": "2017-02-10",
  "hotel_code": "1903a1",
  "destination_code": "20a0c",
  "client_nationality": "gb",
  "pay_at_hotel": false,
  "currency": "USD",
  "mealtype_code": "R0",
  "nonrefundable": false,
  "view": false,
  "policies": [
    {
      "days_remaining": 5,
      "ratio": "1.00"
    }
  ],
  "price": "87.22",
  "rooms": [
    {
      "pax": {
        "children_ages": "",
        "adult_quantity": 3
      },
      "room_category": "Shared Facility",
      "room_description": "BED IN SHARED ROOM CAPACITY 6",
      "nightly_prices": {
        "2017-02-09": "87.22"
      },
      "room_type": "TB"
    }
  ],
  "status": "succeeded",
  "confirmation_numbers": [
    {
      "confirmation_number": "197-2985730",
      "names": [
        "test test",
        "test test",
        "test test"
      ],
      "rooms": [
        {
          "room_description": "BED IN SHARED ROOM CAPACITY 6",
          "room_type": "BED"
        }
      ]...
```

## 4.1.5 Recommend Alternative (Optional but strongly suggested to implement)

Please see the example response for recommend alternative which can be returned in Provision and Book Steps.

```
HTTP 410 GONE
Content-Type: application/json
Vary: Accept
Allow: POST, OPTIONS

{
  "error_code": "4410",
  "detail": "This product is no longer available, you can continue with recommended product",
  "recommended": {
    "code": "10e312_1955083713_0_0_2_2_0_0_1955083761_0_2-2-0.20170325_1_2_0_47_bddc2afa3a8a4233a066f300442bd7e6_",
    "destination_code": "206e4",
    "offer": false,
    "price": "355.50",
    "currency": "GBP",
    "rooms": [
      {
        "pax": {
          "children_ages": [],
          "adult_quantity": 2
        },
        "room_category": "Standard",
        "room_description": "Standard Twin",
        "room_type": "TW"
      }
    ],
    "nonrefundable": null,
    "list_price": null,
    "supports_cancellation": true,
    "additional_info": "177.75 GBP will be applied to any amendment occurs between
     2017-05-24 and 2017-05-27. 44.44 GBP will be applied to any amendment occurs between
      2017-05-20 and 2017-05-23. This booking is freely amendable between 2016-11-23 and 2017-05-19.
      Passenger name change is allowed between 2016-11-23 and 2017-05-27. ",
    "hotel_code": "10e312",
    "hotel_currency": null,
    "hotel_price": null,
```

```
    "hotel_price": null,
    "checkin": "2017-05-27",
    "meal_type": "RO",
    "policies": [
      {
        "ratio": "1.00",
        "days_remaining": 4
      },
      {
        "ratio": "0.25",
        "days_remaining": 8
      }
    ],
    "view": false,
    "checkout": "2017-05-28",
    "minimum_selling_price": null,
    "pay_at_hotel": false
  }
}
```

## 4.1.6 Bookings

Method : GET

**Request for only one booking:**

https://api-test.hotelspro.com/api/v2/bookings/BTPCSDC9QEKF/

**Request for getting bookings in a specific time range**

https://api-test.hotelspro.com/api/v2/bookings/?from_date=2016-11-01&to_date=2016-11-25

**Response:**

```
[
    {
        "code": "BX8H5AJXVCRW",
        "created_at": "2016-12-06T13:09:35.824Z",
        "checkin": "2017-02-09",
        "checkout": "2017-02-10",
        "hotel_code": "1903a1",
        "destination_code": "20a0c",
        "client_nationality": "gb",
        "pay_at_hotel": false,
        "currency": "USD",
        "mealtype_code": "RO",
        "nonrefundable": false,
        "view": false,
        "policies": [
            {
                "days_remaining": 5,
                "ratio": "1.00"
            }
        ],
        "price": "87.22",
        "rooms": [
            {
                "pax": {
                    "children_ages": "",
                    "adult_quantity": 3
                },
                "room_category": "Shared Facility",
                "room_description": "BED IN SHARED ROOM CAPACITY 6",
                "nightly_prices": {
                    "2017-02-09": "87.22"
                },
                "room_type": "TB"
            }
        ],
        "status": "succeeded",
        "confirmation_numbers": [
            {
                "confirmation_number": "197-2985730",
                "names": [
                    "test test",
```

### 4.1.7 Cancel

Method : POST

**Request**

https://api-test.hotelspro.com/api/v2/cancel/BTPCSDC9QEKF

**Response**

```
{
    "currency": "USD",
    "charge_amount": "0.00",
    "code": "BX8H5AJXVCRW"
}
```

# 5. Appendix II

## 5.1 Error Codes

Errors and error codes are generated specific messages corresponding to the information. When an error occurs, API sends a response which contains error_code and detailed information. detail field can be string or javascript object.

**Error code list**

| http_status | error_code | error_type | detail | parameter |
|---|---|---|---|---|
| 400 | 4400 | | | |
| | | common error | | |
| | | | Invalid client IP | client_IP |
| | | | Invalid channel | channel |
| | | booking error | | |
| | | | Passenger names are required | name |

| | | | Search pax info and book pax info does not match | detail |
|---|---|---|---|---|
| | | | This card type is not valid, please check. Available cards:... | card_type |
| | | | Card number is not valid | card_number |
| | | | At least one name parameter is required | name |
| | | cancellation error | Booking cannot be cancelled after check in date | detail |
| | | search error | | |
| | | | Invalid currency | detail |
| | | | Invalid destination code | destination_code |
| | | | Check In date is invalid | checkin |
| | | | Check In date is in the past | checkin |
| | | | Checkout date is invalid | checkout |
| | | | Checkout date appears to be earlier than the check in date | non_field_errors |
| | | | Number of room cannot be more than 5 | pax |
| | | | Number of adults per room must be between 1-6 | pax |
| | | | Number of children per room cannot be more than 4 | pax |
| | | | Number of passengers per room cannot be more than 6 | pax |
| | | | Number of night for a stay cannot be more than 30 days | non_field_errors |
| | | | Destination code is required | non_field_errors |
| | | | Invalid destination code | destination_code |
| 401 | 4401 | common error | | |
| | | | Authentication credentials were not provided. | |
| | | | Invalid username/password | |
| | | | Channel is disabled | |
| 404 | 4404 | booking error | | |
| | | | Please go to provision step first! | detail |
| | | | Search result with given code could not be found | detail |

| | | | Please go to provision step first | detail |
|---|---|---|---|---|
| | | cancellation error | Booking not found | detail |
| | | availability/provision error | Product is expired | detail |
| 405 | 4405 | common error | Method not allowed | detail |
| 409 | 4409 | booking error | | |
| | | | This product is already purchased | detail |
| | | | We could not process the booking due to an unknown error | |
| | | cancellation error | Booking already cancelled | detail |
| 410 | 4410 | booking error | The room is no longer available | detail |
| | | recommend alternative | This product is no longer available, you can continue with recommended product | detail |
| 500 | 5500 | common error | There was an error. Please try again later | |