

GRNconnect Hub API

API Version: 3.0-rc 2



GRNconnect.com
Global Reservations Network

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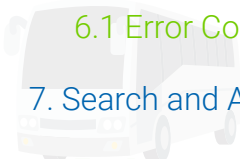
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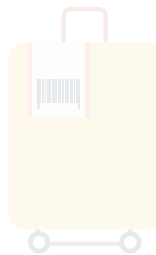


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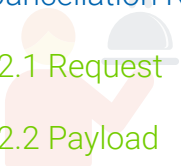
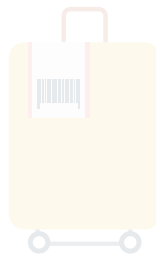
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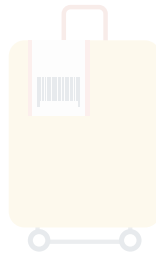
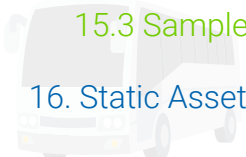
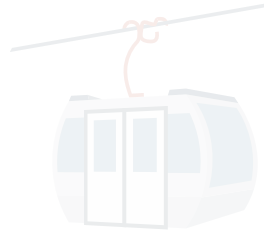
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1. Introduction

The pace at which technology is moving is truly amazing. It is no exaggeration to say that there is no business that has not been redefined by advances in technology over the last few decades. Travel business is no exception to this trend!

We, at GRNconnect, have been keenly following developments in travel technology and the wider space of highly-networked and massively concurrent applications. We are always eager to adopt scalable and resilient technology stacks, to better serve our API consumers and agencies.

This new release of GRNconnect's API is a complete redesign of the existing API, among other new developments. It is characterised by an intuitive RESTful interface, pervasive use of lean JSON formats for data exchange, and highly utilitarian request structures. The new architecture features lower peak latency in responses, enabling smooth user experiences.

Our endeavour at GRNconnect is to provide a solid API backbone for your travel needs. We are here to help you in integrating your applications with GRNconnect's new API. We appreciate your feedback towards improving the capability and the usability of the API.

We had great fun designing and implementing this new API. We invite you to join our growing group of international users!

- GRNconnect Development Team

2. Language and Format

The keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119. This applies only when the said keywords appear in all-upercase outside any quoted context.

All field names, property names and other standards-specified key names (keywords) used in this document are case-sensitive, unless overridden explicitly.

All references to "JSON" MUST comply with the specification in RFC 7159.

3. Hypertext Transfer Protocol (HTTP)

HTTP is the application layer protocol that MUST be used for requests and responses. Accordingly, unless overridden explicitly hereunder, the rules governing the semantics of HTTP requests and responses apply from RFCs 7230-7237.

In particular, GRNconnect server ensures that the method GET is safe (i.e. its semantics are read-only) in the sense of RFC 7231. In addition to that safe method, DELETE and PUT are idempotent (i.e. multiple invocations have the same effect as that of the first such).

4. Content Negotiation

All clients connecting to GRNconnect's API server MUST provide all request payloads in JSON formats as defined by the standard APIs described in this document.

GRNconnect server's support for reactive negotiation of content is OPTIONAL, and is not specified hereunder. Consequently, a compliant client SHOULD NOT expect the server to support reactive content negotiation.

5. HTTP Content Type Negotiation

All text data in requests sent to GRNconnect servers MUST be in **UTF-8** encoding, unless explicitly indicated otherwise.

Clients MUST send all API requests with the header **Content-Type: application/json**. There MUST NOT be any media type parameters.

Header Key	Value
Content-Type	application/json
Accept	application/json

Clients MUST specify the same media type for **Accept** header as well. There MUST NOT be any media type parameters.

If a response from the server contains any media type parameters, clients MUST ignore them.

5.1 Error Codes

HTTP Status Code	Error Code	Description
400	1104	Malformed syntax in request body
406	1105	Response content type is not acceptable according to the request accept headers
415	1103	Unsupported media type

6. API Authentication

GRNconnect API consumers MUST have a sandbox account approved by GRNconnect to access the API. Once you have an account in the sandbox, you SHOULD use the API Key provided in the account to access the API, by passing the key in the header for every request as follows.

Header Key	Value
api-key	C9C43593E47D6EBAAE731B6957EA1DDF

6.1 Error Codes

HTTP Status Code	Error Code	Description
401	1101	API key is not provided in the request
401	1102	Invalid API key

7. Search and Availability Request

7.1 Request

Method	URL
POST	api/v3/hotels/availability

7.2 Payload

Attribute	Type	Required	Description
destination_code	string	REQUIRED if hotel_codes is not specified	City, State(area or destination) or Airport(IATA) code from the provided master data
hotel_codes	array	REQUIRED if destination _code is not specified	List of GRN hotel codes. When hotel codes are given, destination, category and hotel name are not required and ignored. Max no. of hotel codes allowed is 3000
checkin	date	REQUIRED	Format: ISO8601 (yyyy-mm-dd) Date of Check-in
checkout	date	REQUIRED	Format: ISO8601 (yyyy-mm-dd) Date of Check-out
client_nationality	string	REQUIRED	Nationality of the guest Format: Two-letter ISO Country code
hotel_name	string	OPTIONAL	Prefix of any word in the name of the hotel
hotel_category	array	OPTIONAL	The category (star rating) of the hotel. An array with minimum and maximum values. Minimum allowed value is 2. Maximum allowed value is 7. When [a,b] is given, the array is closed, i.e. it includes a and b. E.g. 1: [2,5] will fetch hotels with categories between 2 and 5. This will be inclusive of 2 and 5. E.g. 2: [3] will fetch only 3 star hotels.
currency	string	OPTIONAL	Preferred currency for the prices in the results. Default is the agent's base currency. Format: Three letter ISO Currency code. In case a supplier supports the requested currency, answered prices from that supplier will be in the requested currency.
rooms	array	REQUIRED	An array of 'room' elements. 'room' element is described later in the document.

rates	string	OPTIONAL	<ul style="list-style-type: none"> ● Allowed values: “comprehensive” or “concise” ● Default is “concise”. ● Concise will return only the rate with lowest price for all qualifying hotels. ● Comprehensive will return a full set of room rates for all qualifying hotels.
response	string	OPTIONAL	<ul style="list-style-type: none"> ● Allowed values: “fast” or “full” ● Default is “fast”. ● “fast” will return a response within an internally-defined cut-off time. Therefore, it includes only a subset of the results. ● “fast” is recommended for fetching “Starts from” prices, and for mobile applications. ● “full” will return the complete result set. More properties and prices are returned, but response time may be longer.

Room :

Attribute	Type	Required	Description
adults	integer	REQUIRED	The number of adults in the room
children_ages	array	OPTIONAL	An array with the ages of children in the room E.g. 2 children aged 10 and 15 years [10, 15]
no_of_extra_beds	integer	OPTIONAL	The number of extra beds required in the room (for children)
no_of_infants	integer	OPTIONAL	Number of infants in the room

7.3 Sample Search and Availability Payload

Sample request using GRN city code

```
{
  "destination_code": "C!000780",
  "checkin": "2016-11-29",
  "checkout": "2016-11-30",
  "client_nationality": "IN",
  "response": "full",
  "currency": "INR",
  "rates": "comprehensive",
  "hotel_category": [2, 6],
  "rooms": [
    {
      "adults": "1"
    },
    {
      "adults": "2",
      "children_ages": ["3"]
    }
  ]
}
```

Sample Request using GRN hotel codes

```
{
  "hotel_codes":["H!0048370","H!0050274","H!0061041","H!0071904"],
  "checkin": "2016-11-29",
  "checkout": "2016-11-30",
  "client_nationality": "IN",
  "response": "full",
  "currency": "INR",
  "rates": "comprehensive",
  "hotel_category": [2, 6],
  "rooms": [
    {
      "adults": "1"
    },
    {
      "adults": "2",
      "children_ages": ["3"]
    }
  ]
}
```

8. Search Response

8.1. Response

Attribute	Type	Description
search_id	string	Unique ID for the search request
no_of_hotels	integer	The number of hotels in the response
no_of_rooms	integer	The number of rooms requested for
no_of_nights	integer	The number of nights the rooms are requested for
no_of_children	integer	Number of children
no_of_infants	integer	Number of Infants
no_of_adults	integer	Number of adults
checkin	date	Check-in date
checkout	date	Check-out date
hotels	array	An array of hotels with availability information. "Hotel" is described below.

Hotel:

Attribute	Type	Description
hotel_code	string	Unique GRN hotel code
name	string	Name of the hotel
description	string	Description of the hotel
city_code	string	City code
country	string	Country code
recommended	boolean	"true" if the hotel is recommended by at least one top supplier
min_rate	object	Contains the lowest price within a given hotel for the given search criteria. See "rate" for more info.
images	object	Images of the hotel
geolocation	object	Geolocation of the hotel
facilities	string	List of facilities available in the hotel delimited by semicolon
category	float	The star category of the hotel
address	string	Address of the hotel
rates	array	<ul style="list-style-type: none">● An array of all available rates for a hotel.● Returned only if 'comprehensive' rates are requested.● The "rate" element is described below.

Images

Attribute	Type	Description
main_image	string	Path for the main image of the hotel

N.B: All image paths should be prefixed with the base url <https://cdn.grnconnect.com/>

Example : <https://cdn.grnconnect.com/hotels/images/fa/67/fa67573977698e4442dd4c301168a20-c9bd411b4.jpg>

Rate

Attribute	Type	Description
rate_key	string	Unique code representing the rate. REQUIRED, to be included when making a booking request.
rate_type	string	Possible values are 'bookable' and 'recheck'. If rate_type = 'recheck', you must use re-check endpoint before booking.
rate_comments	object	Object of dynamic key value pairs. Eg: { "comments": "Rate comments come here", "checkin-Instruction": "Checking details come here" }
non_refundable	boolean	'true' if the rate is Non-refundable. Otherwise, cancellation policies applicable.
room_code	string	Room code representing the rooms in the rate. REQUIRED to be included when making a booking request.
no_of_rooms	integer	Number of rooms included in this rate
group_code	string	<ul style="list-style-type: none">● Represents a group of related rates.● When booking multiple rates, you must use rates from the same group.● REQUIRED to be included when making a booking request.
price	float	Price for the rooms included in this rate.
price_details	object	Price details. Refer below for more info.
currency	string	Three-letter ISO currency code of the price
payment_type	string	Allowed payment types: AT_WEB, AT_HOTEL
allowed_card_types	array	An array of allowed card types.
cancellation_policy	object	Cancellation policy for the rate. See "Cancellation Policy" for details.

<code>cancellation_policy_code</code>	<code>string</code>	<ul style="list-style-type: none"> ● Code representing the cancellation policy for the rate. ● This is returned when cancellation policies are not available for the rate. ● This shall be used for fetching cancellation policies for the rate using cancellation policy end point.
<code>has_promotions</code>	<code>boolean</code>	"true" if any promotions are included in this rate
<code>promotions_details</code>	<code>array</code>	List of promotions (strings), if any
<code>includes_boarding</code>	<code>boolean</code>	"true" if boarding is included in this rate
<code>boarding_details</code>	<code>array</code>	List of boarding details (strings), if available
<code>includes_wifi</code>	<code>boolean</code>	"true" if wi-fi is included in this rate
<code>supports_amendment</code>	<code>boolean</code>	"true" if this booking can be amended through api.
<code>supports_cancellation</code>	<code>boolean</code>	"true" if this booking can be cancelled through api.
<code>rooms</code>	<code>array</code>	List of rooms included for this rate. See "room" for details.

Price Details:

Dynamic key-value pairs, where each value is an array of charge details.

These details are for display purpose only. A compliant implementation is not required to process or interpret these details.

Refer sample price_details below.

Charge Details:

Attribute	Type	Description
name	string	Name of the charge.
included	boolean	'true' if the charge is already included in the price.
amount_type	string	Defines the type of amount: 'value' represents flatfee 'percent' represents percentage
amount	float	flat fee or percentage value.
mandatory	boolean	'true' if this must be paid either at booking or at hotel. Otherwise, this has to be paid(at hotel) only if you need the supplement/facility.
currency	string	Three-letter ISO currency code
comments	string	Description or any notes for the charge if available.

Sample price_details

```
{
  "price_details":{
    "surcharge_or_tax":[
      {
        "amount":0,
        "name":"roomTax",
        "included":true,
        "currency":"USD",
        "amount_type":"value"
      },
      {
        "amount":4,
        "name":"salesTax",
        "included":true,
        "currency":"USD",
        "mandatory":true,
        "amount_type":"percent"
      }
    ]
  }
}
```

```

],
  "hotel_charges":[
    {
      "amount":129.92,
      "mandatory":true,
      "name":"Resort",
      "included":false,
      "comments":"Per Room",
      "amount_type":"value",
      "currency":"USD"
    }
  ]
}

```

Room

Attribute	Type	Description
room_type	string	Room type. E.g. single room, executive room, suite
room_reference	string	Unique room reference for the room
no_of_rooms	integer	Number of rooms(included) of the same type.
no_of_adults	integer	Number of adults in the room
no_of_children	array	Number of children in the room
children_ages	integer	Ages of the children
no_of_infants	string	Number of infants in the room
description	string	Description of the room
bed_types	array	Array of bed type Objects. If returned, you can choose and include bed type in the booking request.
max_room_occupancy	object	An object representing maximum room occupancy

Max room Occupancy:

Attribute	Type	Description
max_pax	integer	Maximum number of total guests allowed in the room
max_adults	integer	Maximum number of adults allowed in the room
max_children	integer	Maximum number of children allowed in the room

Bed Type Object:

Attribute	Type	Description
id	string	Bed type id
type	string	Bed type name/description

Geolocation:

Attribute	Type	Description
latitude	float	Latitude of the hotel
longitude	float	Longitude of the hotel

Cancellation Policy:

Attribute	Type	Description
under_cancellation	boolean	“true” if the booking is under cancellation, i.e. cancellation charges will apply should a cancellation be made later.
cancel_by_date	datetime	Last date for cancellation without charges. Mutually-exclusive with “under_cancellation” being “true”.
amount_type	string	<ul style="list-style-type: none">● value represents amount● percentage represents percentage● nights represents charges in number of nights.● For nights, in some cases, percentage is also returned. In those cases charges have to be calculated by taking (percentage x nights) value.
details	array	List of cancellation windows and applicable charges. Refer policy details below.

Policy Details:

Attribute	Type	Description
from	string	date from which the charge in this window applies
nights	integer	charges in number of nights.
percent	float	Charges in percentage
flatfee	float	Charge applicable
currency	string	Three-letter ISO currency code

8.1.1 Error Codes

HTTP Status Code	Error Code	Description
200	5101	Field[name] is required
200	5102	Field[name] value/type is invalid
200	5108	Check-In and check-out dates must be valid, and in ISO8601 format (YYYY-MM-DD)
200	5109	Check-In date cannot be older than today
200	5110	Stay cannot exceed 30 days
200	5111	Check-out date must be greater than check-in date
200	5103	Invalid hotel category
200	5106	Children ages should be between 0 and 18
200	1501	No availability for the requested search criteria
200	1502	No hotels found for the query
401	1102	Invalid API key

8.1.2 Sample Search Response

```
{
  "search_id": "nalbrhbt627v4dxzpj4bq7dsdq",
  "no_of_rooms": 2,
  "no_of_nights": 1,
  "no_of_hotels": 27,
  "no_of_children": 1,
  "no_of_adults": 3,
  "hotels": [
    {
      "recommended": true,
      "rates": [
        {
          "supports_cancellation": true,
          "supports_amendment": false,
          "rooms": [
            {
              "room_type": 201052714,
              "no_of_rooms": 1,
              "no_of_children": 1,
              "no_of_adults": 2,
              "description": "Room - Advance Purchase/Non-Refundable",
              "children_ages": [
                3
              ]
            }
          ]
        },
        {

```

```

        "room_type":201052714,
        "no_of_rooms":1,
        "no_of_children":0,
        "no_of_adults":1,
        "description":"Room - Advance Purchase/Non-Refundable"
    }
],
"room_code":"4pgvnnzw7qvsluc33xsqkf644ljkvqfk7k3ozuds2fd-
br7pkc7ixrbxv",
"rate_key":"5covbpjx4ewhrr2sugpwaags5h1ktxh2u6z6zt35ryjbz kf3cs-
bh3bveeaiczyhb64",
"rate_comments":{
    "tax_information":"SalesTax and HotelOccupancyTax(if charged) are
included in TaxAndServiceFee"
},
"price_details":{
    "surcharge_or_tax":[
        {
            "name":"TaxAndServiceFee",
            "included":true,
            "currency":"INR",
            "amount_type":"value",
            "amount":2111.86
        }
    ],
    "hotel_charges":[
        {
            "name":"MandatoryTax",
            "included":false,
            "currency":"INR",
            "amount_type":"value",
            "amount":487.01
        }
    ]
},
"price":23230.38,
"payment_type":[
    "AT_WEB"
],
"non_refundable":true,
"no_of_rooms":2,
"includes_wifi":false,
"includes_boarding":false,
"has_promotions":false,
"group_code":"wsdbjylcxn4ufdya7kiw2h6x4x1kxqq",
"currency":"INR",
"cancellation_policy":{
    "under_cancellation":true,
    "details":[
        {
            "percent":100,
            "from":"2016-11-02T13:14:38.176747Z",
            "currency":"INR"
        }
    ]
},
"amount_type":"percent"

```

```

    },
    "bed_types": [
      {
        "type": "2 double and 1 sofa bed",
        "id": "83"
      },
      {
        "type": "1 queen and 1 sofa bed",
        "id": "68"
      }
    ]
  },
  {
    "supports_cancellation": true,
    "supports_amendment": false,
    "rooms": [
      {
        "room_type": "27915125",
        "room_reference": "4pev3njt4mvcruc3uq",
        "no_of_rooms": 1,
        "no_of_children": "1",
        "no_of_adults": "2",
        "description": "1 Queen or 2 Double",
        "children_ages": [
          "3"
        ]
      }
    ],
    "room_code": "4dfvfkr64ausxuc3yh4bg",
    "rate_key": "rcvaxnkjxrwgpjl3gor4q5iuc4nzofpuli3fgqfv4yvba7-
jn7kqd45opjpcxgfbt4sepaw3s5br4i3pro3v6k5r37ebpvwhrswnx3x7dft7zivj6essdggf5e32",
    "rate_comments": {
      "tariff_notes": "1 Queen or 2 Double, Wireless Internet for a fe e"
    },
    "price": 11531.01,
    "payment_type": [
      "AT_WEB"
    ],
    "no_of_rooms": 1,
    "includes_wifi": false,
    "includes_boarding": false,
    "has_promotions": false,
    "group_code": "wwirb4z45avsxwstua",
    "currency": "INR",
    "cancellation_policy": {
      "under_cancellation": true,
      "details": [
        {
          "from": "2016-11-02T18:44:42",
          "flat_fee": 1048.27,
          "currency": "INR"
        }
      ]
    },
    "amount_type": "value"
  },
  "allotment": "1"

```

```

},
{
  "supports_cancellation":true,
  "supports_amendment":false,
  "rooms":[
    {
      "room_type":"27915125",
      "room_reference":"4pev3njt4mvcruc3uq",
      "no_of_rooms":1,
      "no_of_children":"0",
      "no_of_adults":"1",
      "description":"1 Queen or 2 Double",
      "children_ages":[

    ]
  }
],
  "room_code":"4dfvdkrw44qcxuc3yh4bg",
  "rate_key":"rcvaxnkjxrwgpij13gor4q5iuc4nzofpuli3fgqfv4yvba7-
jn7kqd45opjpcxgfbt4sepaw3s5br4i3pro3v6k5r37ebpvwhrswxndx3x7dft7zivj6essdggf5e32xsozc2
",
  "rate_comments":{"
    "tariff_notes":"1 Queen or 2 Double, Wireless Internet for a fee"
  },
  "price":11401.38,
  "payment_type":[
    "AT_WEB"
  ],
  "no_of_rooms":1,
  "includes_wifi":false,
  "includes_boarding":false,
  "has_promotions":false,
  "group_code":"wwirb4z45avsxwstua",
  "currency":"INR",
  "cancellation_policy":{"
    "under_cancellation":true,
    "details":[
      {
        "from":"2016-11-02 18:44:42",
        "flat_fee":1036.49,
        "currency":"INR"
      }
    ]
  },
  "amount_type":"value"
},
  "allotment":"1"
},
{
  "supports_cancellation":true,
  "rooms":[
    {
      "room_reference":"4dcf5nb45aua",
      "no_of_rooms":1,
      "no_of_children":0,
      "no_of_adults":"1",

```

```

        "description": "1 King or 1 Queen or 2 Double",
        "children_ages": [
            ]
        },
        {
            "room_reference": "4pcf5nj45avspucq",
            "no_of_rooms": 1,
            "no_of_children": 1,
            "no_of_adults": "2",
            "description": "1 Queen or 2 Double",
            "children_ages": [
                3
            ]
        }
    ],
    "room_code": "4pdv3kru4urcppzs2ciw2todusj23m6vq6zlvkqpx-
eag7l4ic7ean5mceilez24iqeeev6v7xb5conct6dggannsysxq",
    "rate_key": "xopq3skjvb5gzxcw6ddsms6746h5vohrv13kpuif3yyujoxdb-
w2t7ymypvlsza725yiclgwf2jns4bsbwh4vsd4b3o6ttt4kx6txxe7rssnv5yr2wmmh6oqupzkzc2a12kdb5
vkzde5qwueuxhzmiaqnyvgb6i4ffbp3rniibuq27z1pzlewhn4i2y1ld3btfdxergykjbm3vwove7lfcvhkgv
c2ddemgkcnx5s7bc2lk66vog3dxe2cgd7w5g7sim3yrh3c4jdkrh7asopagkfewbkztseInV64h6fildkic1
2ygonbws2qp3zksxwvc23tjzn2asqzgjcdxn6mcunq75qopu52knbb4uvmuycxny3c7hbraqriia3pzhffey
hw3uwlet2qxlsqtnb7mxbi",
    "promotions_details": [
        "RECOMMENDED_PRICE: 380.00 USD"
    ],
    "price": 22005.17,
    "payment_type": [
        "AT_WEB"
    ],
    "non_refundable": false,
    "no_of_rooms": 2,
    "includes_wifi": null,
    "includes_boarding": true,
    "has_promotions": true,
    "group_code": "xsfappr4tbec3xsxugjw4",
    "currency": "INR",
    "cancellation_policy_code": "xsfappr4tbec3xsxugjw4",
    "boarding_details": [
        "Room Only"
    ]
    ]
}
],
"name": "AC Ciutat de Palma",
"images": {
    "main_image": "hotels/images/33/f0/33f03ce1debc2d1e2bb-
ff979e9257fef9329b3c6.jpg"
},
"hotel_code": "H!0048370",
"geolocation": {
    "longitude": "2.6332426071167",
    "latitude": "39.570432851232"
},
"facilities": "meeting rooms; american express payment cards accepted; room
service 24 hour; spanish languages spoken; visa; parking - onsite; restaurant;

```

separate shower and tub; wi-fi in public areas; breakfast available (surcharge); only service dogs are allowed; 1 lift; elevator; tours; car parking (payable to hotel, if applicable); free newspapers in lobby; direct-dial telephone; room service; shower only; concierge; shops; baby sitting; laundry facilities; bathtub; total number of rooms - 85; desk; ceiling fan; internet via television; visa payment cards accepted; balcony/terrace; 24-hour room service; safe-deposit box at front desk; air conditioning (room); english languages spoken; free wi-fi (public areas); wifi (surcharge); 24-hour front desk; air conditioned (public areas); air conditioning; free cribs/infant beds; free wi-fi; designated smoking areas; television; shower; free wifi; rooftop terrace; check-in time starts at 3 pm; hair dryer; 5 floors; fax machine; elevator/lift; restaurant(s); security safe (at reception); mastercard payment cards accepted; work desk; no rollaway/extra beds available; gymnasium; diners club; in-room climate control (air conditioning); car rental facilities; number of floors - 5; in-room safe; flat screen television; mastercard; room service (24 hours); bar; daily housekeeping; number of meeting rooms - 2; automatic wake-up call; pets not allowed; french languages spoken; self parking (surcharge); number of buildings/towers - 1; bar(s); coffee shop; rollaway/extra beds available; year built 2003; fitness facilities; check-in time ends at 5:30 am; conference facilities; diners club payment cards accepted; safety deposit boxes; library; check-out time is noon; earliest check-in at 14:00; photocopying; television in common areas; internet access - wireless (charges apply); satellite/cable tv; private bathroom; mini bar; bar/lounge; german languages spoken; laundry service; bathrobes; inhouse movies; coffee shop or café; non smoking rooms; business centre; italian languages spoken; car park; minibar; business center; american express; free newspaper; multilingual staff",

"description":"This hotel is located in Palma, at about 1 km of the city center, 2 km from the beach and 12km from the nearest golf course. Built in 2003, has five floors with a total of 85 rooms including 5 singles and 80 doubles. The facilities of the hotel are a garage, 24 hors, safe. conference room, internet access, wireless, laundry service, room service. With regards to gastronomy, the hotel has a cafeteria with lounge, a bar and a restaurant with Mediterranean cuisine and courtyard terrace is open to all the public.",

"country":"ES",

"city_code":"C!000780",

"category":4,

"address":"Plaza Puente 3 07014 Palma de Mallorca"

}

],

"checkout":"2016-11-30",

"checkin":"2016-11-29"

}

8.2 Re-Fetch Availability with search ID

You can use this method to fetch complete availability of a previous search.

Method	URL
GET	api/v3/hotels/availability/<sid>

<sid> refers to the 'search_id' returned in the search response.
The response structure for this request will be same as the search response.

8.2.1 Error Codes

HTTP Status Code	Error Code	Description
200	1501	No availability for the requested search criteria
403	5003	Not authorised
200	1504	Invalid search ID or it might have expired
401	1102	Invalid API key

8.3 Re-fetch Availability for a Single Hotel

You can use this method to re-fetch availability of a single hotel from a previous search.

Method	URL
GET	api/v3/hotels/availability/<sid>?hcode=<hcode>

<hcode> refers to the 'hotel_code' returned in the search response.
<sid> refers to the 'search_id' returned in the search response.
Response to this will be similar to the search response with results for just one hotel.

8.3.1 Error Codes

HTTP Status Code	Error Code	Description
200	1501	No availability for the requested search criteria
200	1507	Invalid hotel code
200	1504	Invalid search ID or it might have expired
401	1102	Invalid API key
404	5002	Hotel not found

8.4 Fetch Cancellation Policies for the rate using rate-key

You can use this method to fetch the cancellation policies for the selected rate from the previous search if cancellation policy code is returned instead of cancellation policy.

8.4.1 Request

Method	URL
POST	api/v3/hotels/availability/<sid>/rates/cancellation_policies/

8.4.2 Payload

Attribute	Type	Required	Description
rate_key	string	REQUIRED	Refers to rate key returned in search response for the selected rate.
cp_code	string	REQUIRED	Refers to cancellation policy code returned in search response.

8.4.3 Sample Cancellation Policy Response

The response will be similar to the cancellation policies which are returned in the search response. Refer **Cancellation Policy** in 8.1(Search Response) for more info.

```
{
  "cancellation_policy_code": "xsfappr4tbecvu2vuwpwi",
  "under_cancellation": false,
  "details": [
    {
      "from": "2016-11-26",
      "flat_fee": 93.51,
      "currency": "USD"
    },
    {
      "from": "2016-11-22",
      "flat_fee": 31.58,
      "currency": "USD"
    }
  ],
  "cancel_by_date": "2016-11-21",
  "amount_type": "value",
  "no_show_fee": {
    "flat_fee": 93.51,
    "currency": "USD"
  },
}
```

8.4.4 Error Codes

HTTP Status Code	Error Code	Description
200	1504	Invalid search ID or it may have expired
200	5146	No permissions / Not Authorised at supplier's end
200	5147	Supplier API is currently unavailable
200	5140	Unknown Error at Supplier's end
200	2004	The booking item is not available/sold out
200	2008	The rate_key is invalid/expired
200	5102	cancellation_policies_code value/type is invalid
200	5102	rate_key value/type is invalid
200	5101	Field[name] is required

8.5 Rate Re-check using rate_key

You shall use this method to fetch the updated rate. It is mandatory to perform this check before booking if "rate_type" is "recheck" in search response.

8.5.1

Method	URL
POST	api/v3/hotels/availability/<sid>/rates/?action=recheck

8.5.2 Payload

Attribute	Type	Required	Description
rate_key	string	REQUIRED	Refers to rate key returned in search response for the selected rate.
group_code	string	REQUIRED	Refers to group code returned in search response for the selected rate.

8.5.3 Response

The response will be similar to that of search response. Find the sample response below.

8.5.4 Sample Rate-Recheck Payload

```
{
  "search_id": "bxefrc633mntbf7kzha62wxuum",
  "rate_key": "4phflmr4mvc7fstusngchg4",
  "group_code": "xgirbylkwb6xtgk3v2mgafos"
}
```

8.5.5 Sample Rate-Recheck Response

```
{
  "search_id": "zadu3v7m72nqz2oaikjstee6vu",
  "hotel": {
    "rate": {
      "supports_cancellation": true,
      "supports_amendment": true,
      "rooms": [
        {
          "room_type": "QUA.ST",
          "no_of_children": 0,
          "children_ages": [
            ],
          "no_of_adults": 2,
          "description": "QUADRUPLE STANDARD"
        }
      ],
      "room_code": "4pgfdkrw5arfjjbt",
      "rate_key": "4phflmr4mvc3fstusngchg41j6hope6g26vhtz2-jdrz7xil2zbv5xpibuwlemw5auf55g6vzbqlshxl6soo6r2grcry56v7sfzm4h5xvatcr7xz7ugodgfmyz mssnwdcgdis5mvhhongf6c6lqppxsk5msvmsodydnmcs7a",
      "price": 16499.09,
      "payment_type": [
        "AT_HOTEL"
      ],
      "no_of_rooms": 1,
      "includes_wifi": false,
      "includes_boarding": true,
      "has_promotions": false,
      "group_code": "xgirbylkwb6xtgk3v2ng4hws4lia",
      "currency": "INR",
      "cancellation_policy": {
        "under_cancellation": false,
        "details": [
          {
            "from": "2016-11-17",
            "flat_fee": 16499.09,
            "currency": "INR"
          }
        ]
      }
    ]
  }
}
```

```

        "cancel_by_date":"2016-11-16",
        "amount_type":"value"
    },
    "boarding_details":[
        "BED AND BREAKFAST"
    ]
},
"name":"Bolivar",
"images":{"
    "main_image":""
},
"hotel_code":"H!0055047",
"geolocation":{"
    "longitude":"12.4865",
    "latitude":"41.8997"
},
"facilities":"free breakfast; discover; american express payment cards
accepted; in room safe; currency exchange; visa; turndown service",
"description":"The residence is situated within walking distance of the
Coliseum and a number of other popular attractions, including the Trevi Fountain,
the Spanish Steps and Via Veneto. Piazza Venezia, a famous city square, is right
around the corner and the train station is also within walking distance of this
Rome hotel. A variety of restaurants and cocktail lounges are located in the sur-
rounding area. Guests of this property will enjoy a complimentary full breakfast
every morning and tea service in the afternoon. Access to fax and copy services, a
public computer and on-site banquet and meeting rooms are provided to help business
travellers with their needs.",
"country":"IT",
"city_code":"C!001175",
"category":4,
"address":"Via della Cordonata 6 00187 Roma"
}
}

```

8.5.6 Error Codes

HTTP Status Code	Error Code	Description
404	1504	Invalid search Id or it may have expired
200	2001	Invalid group code
200	5146	Not Authorised at supplier's end
200	5147	Supplier API is currently unavailable
200	5140	Unknown Error at Supplier's end
200	2004	The booking item is not available/sold out
200	2008	The rate_key is invalid or expired
200	5102	group_code value/type is invalid
200	5102	rate_key value/type is invalid
200	5101	Field[name] is required

9. Booking Request

9.1 Request

Method	URL
POST	api/v3/hotels/bookings

9.2 Booking Payload

Attribute	Type	Required	Description
search_id	string	REQUIRED	Search ID returned in the search response
hotel_code	string	REQUIRED	GRN hotel code returned in search
city_code	string	REQUIRED	City code returned in search
booking_name	string	OPTIONAL	Name of the booking; for agent's reference
group_code	string	REQUIRED	Group code returned in search
checkin	date	REQUIRED	Check-in date; must be in the format yyyy-mm-dd.
checkout	date	REQUIRED	Check-out date; must be in the format yyyy-mm-dd.
payment_type	string	REQUIRED	"AT_WEB" or "AT_HOTEL". Must get matched with the booking item selected
holder	object	REQUIRED	Information of the lead passenger. See " holder " for details.
booking_items	array	REQUIRED	Information of the rooms and the pax in the rooms. See "Booking Item" for details.
booking_comments	string	OPTIONAL	Optional booking comments to be passed along to the hotel
credit_card	object	REQUIRED if payment_type = "AT_HOTEL"	Contains Fields of Credit Card

Booking Item:

Attribute	Type	Required	Description
rate_key	string	REQUIRED	rate_key value from the search response
room_code	string	REQUIRED, if returned in the search response	room_code value from the search response
rooms	array	REQUIRED	List of "room" elements

Room :

Attribute	Type	Required	Description
room_reference	string	REQUIRED, if returned in the search response	Unique room reference for the room
paxes	array	REQUIRED	Contains the information of pax in the room
no_of_infants	integer	OPTIONAL, required if Infants are present	Number of infants
no_of_extra_beds	integer	OPTIONAL, required if children are present	Number of extra beds needed for children
bedtype_id	integer	OPTIONAL	Preferred bed type which can be selected from the list of bed types returned in the search response.

Pax:

Attribute	Type	Required	Description
title	string	REQUIRED	Title of the passenger (accepted values are: "Mr.,""Ms.,""Mrs.,""Mstr.")
name	string	REQUIRED	Name of the person staying in the room. Must not contain any special characters and numbers.
surname	string	REQUIRED	Surname/patronymic of the person staying in the room. Must not contain any special characters and numbers.
type	string	REQUIRED	Must be either "AD" or "CH"
age	integer	REQUIRED if type = "CH"	Age of the children

Holder:

Attribute	Type	Required	Description
title	string	REQUIRED	Title of the passenger (accepted values are: "Mr.,""Ms.,""Mrs.,""Mstr.")
name	string	REQUIRED	Name of the lead passenger. Must not contain any special characters and numbers.
surname	string	REQUIRED	Surname/patronymic of the lead passenger. Must not contain any special characters and numbers.
email	string	REQUIRED	Valid email address of the lead passenger
phone_number	string	REQUIRED	Phone number of the lead passenger
client_nationality	string	REQUIRED	Two-letter ISO country code of the lead passenger

Credit Card

Attribute	Type	Required	Description
address_line1	string	REQUIRED	First line for street address, 28 char max.
address_line2	string	OPTIONAL	Optional second line for street address, 28 char max.
address_line3	string	OPTIONAL	Optional third line for street address, 28 char max.
amount	float	REQUIRED	Amount to be paid for the booking
card_cv2	integer	REQUIRED	Credit card identification number or the card security value (CSV or CVV) that is found on the back of the card. Never store this value after the customer's initial entry and booking attempt.
card_holder_name	string	REQUIRED	Full first name of the credit card holder. Only accepts non-accented Latin ASCII (26 letter alphabet). 25 char max - no salutations or company names.
card_issue_number	integer	OPTIONAL	Card issue number..
card_number	integer	REQUIRED	Must be a valid card number in-order to book a hotel
card_type	string	REQUIRED	Must be in the list of card_types provided
city_name	string	REQUIRED	Customer's city.
country	string	REQUIRED	Two character ISO-3166 code for the country containing the specified city. Use only country codes designated as "officially assigned" in the ISO-3166 decoding table.
expiry_month	integer	REQUIRED	Credit card expiration month, in MM format.
expiry_year	integer	REQUIRED	Credit card expiration year, in YYYY format.
issuing_bank	string	OPTIONAL	Bank name Which issued the credit card
state	string	OPTIONAL	Must be in the list of state codes provided (destination master).
zip	string	REQUIRED	This must match the credit card provider's records or the booking will not be valid.

N.B. GRNconnect does *not* store any credit card information of the users. The details are passed to the supplier with whom the booking is made.

9.2.1 Sample Booking Payload

```
{
  "search_id": "nalbrhbt627v4dxzpj4bq7dsdq",
  "hotel_code": "H!0048370",
  "city_code": "C!000780",
  "group_code": "wsdbjylcxn4ufdya7kiw2h6x4xlkxqq",
  "checkout": "2016-11-30",
  "checkin": "2016-11-29",
  "booking_comments": "Testing",
  "payment_type": "AT_WEB",
  "booking_items": [
    {
      "rate_key": "5covbpjx4ewhrr2sugpwaags5h1ktxh2u6z6zt35ryjzbz3csbh3bveea-
iczyhb64",
      "room_code": "4pgvnnzw7qvs1uc33xsqkf6441jkvqfk7k3ozuds2fdbr7pkc7ixrbxv",
      "rooms": [
        {
          "bedtype_id": "68",
          "paxes": [
            {
              "title": "Mr.",
              "name": "Daniel Wroughton",
              "surname": "Craig",
              "type": "AD"
            }
          ]
        },
        {
          "paxes": [
            {
              "title": "Mr.",
              "name": "Shilouh",
              "surname": "Pitt",
              "type": "CH",
              "age": 3
            },
            {
              "title": "Mrs.",
              "name": "Angelina Jolie",
              "surname": "Pitt",
              "type": "AD"
            },
            {
              "title": "Mr.",
              "name": "Brad",
              "surname": "Pitt",
              "type": "AD"
            }
          ]
        }
      ]
    }
  ]
}
```

```
    }
  ]
}
],
"holder": {
  "title": "Mr.",
  "name": "Brad",
  "surname": "Pitt",
  "email": "oliver@queen.com",
  "phone_number": "6614565589",
  "client_nationality": "fr"
},
"credit_card": {
  "card_type": "Visa",
  "card_number": "4242424242424242",
  "expiry_month": "03",
  "expiry_year": "2018",
  "card_cv2": "832",
  "card_holder_name": "Agoda Customer",
  "country": "NL",
  "issuing_bank": "RABO"
}
}
```

10. Booking Response

10.1 Response

Attribute	Type	Description
booking_id	string	Unique booking ID
booking_reference	string	Unique booking code. REQUIRED for all future transactions and support.
booking_name	string	Booking name provided while booking
checkin	date	Check-in date Format: YYYY-MM-DD
checkout	date	Check-out date Format: YYYY-MM-DD
price	object	Price details of the booking (refer below for more info)
payment_type	string	Payment type used for the booking
non_refundable	string	'true' if the rate is Non-refundable. Otherwise, cancellation policies applicable.
payment_status	string	Status of the payment.
currency	string	Three-letter ISO currency code of the price
booking_date	datetime	The date when booking was made
status	string	Booking status will be one of the following <ul style="list-style-type: none">● Confirmed● Failed● Rejected● Pending
holder	object	Lead passenger details. Defined in the holder section above.
hotel	object	Hotel element
supports_amendment	boolean	"true" if amendments are allowed
supports_cancellation	boolean	"true" if cancellations are allowed
booking_comment	string	Optional booking comments passed along to the hotel
additional_info	object	Additional information if any. Object of dynamic key value pairs. Eg: { "comments": "comments come here", "Checkin-Instruction": "Checking details come here" }

Price:

Attribute	Type	Description
total	float	Booking amount
breakdown	object	Dynamic key value pairs, with values being an array of charge details. Refer below for charge details and sample response.

Charge Details:

Attribute	Type	Description
name	string	Name of the charge.
included	boolean	'true' if the charge is already included in the price.
amount_type	string	Defines the type of amount: 'value' represents flatfee 'percent' represents percentage
amount	float	flatfee or percentage value.
mandatory	boolean	'true' if this must be paid either at booking or at hotel. Otherwise, this has to be paid(at hotel) only if you need the supplement/facility.
currency	string	Three-letter ISO currency code
comments	string	Description or any notes for the charge if available.

Sample response for 'price' element:

```
{
  "total": 159828,
  "breakdown": {
    "surcharge_or_tax": [
      {
        "name": "TaxAndServiceFee",
        "included": true,
        "currency": "INR",
        "amount_type": "value",
        "amount": 14529.14
      }
    ],
    "hotel_charges": [
      {
        "name": "MandatoryTax",
        "Mandatory": true,
        "included": false,
        "currency": "INR",
        "amount_type": "value",
        "amount": 8854.72
      }
    ]
  }
}
```

Hotel:

Attribute	Type	Description
hotel_code	string	GRN hotel code
name	string	Name of the hotel
description	string	Description of the hotel
category	float	The star category of the hotel
address	string	Address of the hotel
geolocation	object	Geolocation
paxes	array	List of the pax in the booking
booking_items	array	List of booking items

Booking Item:

Attribute	Type	Description
room_code	string	Unique key representing the rooms in the booking item
rooms	array	List of room elements. Rooms that are part of the booking item.
non_refundable	boolean	'true' if the rate is Non-refundable. Otherwise, cancellation policies applicable.
rate_comments	object	Additional rate information, if any Object of dynamic key value pairs. Eg: { "comments": "comments come here", "additional rate info": "additional details come here" }
boarding_details	array	List of boarding details, if applicable
cancellation_policy	object	Cancellation policy details
price	float	Price of the booking item
currency	string	Currency of the price.

Room:

Attribute	Type	Description
description	string	Room description
room_reference	string	Unique key referencing the room
pax_ids	array	List of pax identification details. Represents pax allocation to the rooms.
no_of_adults	integer	Number of adults in the room
no_of_infants	integer	Number of infants in the room
no_of_children	integer	Number of children in the room
bed_type	object	bed type details with the following structure { "id": 69, "type": "One double and two single beds" }

10.2 Error Codes

HTTP Status Code	Error Code	Description
200	1504	Invalid search ID or it may have expired
200	2001	Booking failed [with reason for failure]
200	2002	Invalid group code
200	5102	Field[name] value/type is invalid
200	5101	Field[name] value/type is required
200	5108	Check-in and check-out dates must be valid, and in ISO8601 format (YYYY-MM-DD)
200	5109	Check-in date cannot be older than today
200	2006	Need confirmation from supplier
200	5140	Unknown Error at Supplier's end
200	5144	Exceeded request limit
200	2004	The booking item is not available/sold out
200	2005	price mismatch
200	5126	Rate key 'Field[value]' and the rooms specified do not match
200	5113	No of rooms per request cannot exceed 10
200	5113	No of booking_items per request cannot exceed 10
200	5114	Paxes data does not match with the given room
200	5134	Age is required for type Children
200	5127	Only One Room For The Given Rate Can Be Booked
200	5126	Rate key and the rooms specified do not match
200	5112	group_code Does Not Match With The hotel_code or city_code
200	5110	Stay cannot exceed 30 days
200	5124	Existing Itinerary
200	5123	Credit Card Is Required For Booking
200	5122	Only One Rate_Key Per Booking For Bundled Rates

200	1511	Payment Type is Invalid for the rate_key 'Field[value]'
200	2012	room_code is Invalid for the rate_key 'Field[value]'
200	2013	room_reference is Invalid for the rate_key 'Field[value]'
200	2010	Rooms in the booking request doesn't match with the rooms in the search request
200	5111	Check-out date must be greater than check-in date
200	5120	Request timed out at supplier's end
200	5126	Rate key and the rooms specified do not match
403	5003	Not authorised
200	6000	Supplier error: Error[message]
401	1102	Invalid API key
404	5002	Hotel not found
200	5106	Children ages should be between 0 and 18
200	1505	Insufficient credit to create the booking
200	5139	Atleast one adult required in a room
200	5149	Search and Booking mismatch

10.3 Sample Booking Response

```
{
  "supports_cancellation": true,
  "supports_amendment": false,
  "status": "confirmed",
  "price": {
    "total": 23230,
    "breakdown": {
      "surcharge/tax": [
        {
          "name": "TaxAndServiceFee",
          "included": true,
          "currency": "INR",
          "amount_type": "value",
          "amount": 2111.86
        }
      ],
      "hotel_charges": [
        {
          "name": "MandatoryTax",
          "included": false,
          "currency": "INR",
          "amount_type": "value",
          "amount": 487.01
        }
      ]
    }
  },
  "payment_type": "AT_WEB",
  "payment_status": "paid",
  "non_refundable": true,
  "hotel": {
    "paxes": [
      {
        "type": "AD",
        "surname": "Craig",
        "pax_id": 1,
        "name": "Daniel Wroughton"
      },
      {
        "type": "CH",
        "surname": "Pitt",
        "pax_id": 2,
        "name": "Shilouh",
        "age": 3,
      },
      {
        "type": "AD",
        "surname": "Pitt",
        "pax_id": 3,
        "name": "Angelina Jolie"
      },
    ]
  }
}
```

```

    {
      "type": "AD",
      "surname": "Pitt",
      "pax_id": 4,
      "name": "Brad"
    }
  ],
  "name": "AC Ciutat de Palma",
  "hotel_code": "H!0048370",
  "geolocation": {
    "longitude": "2.6332426071167",
    "latitude": "39.570432851232"
  },
  "description": "This hotel is located in Palma, at about 1 km of the city center, 2
km from the beach and 12km from the nearest golf course. Built in 2003, has five floors
with a total of 85 rooms including 5 singles and 80 doubles. The facilities of the
hotel are a garage, 24 hors, safe. conference room, internet access, wireless, laundry
service, room service. With regards to gastronomy, the hotel has a cafeteria with
lounge, a bar and a restaurant with Mediterranean cuisine and courtyard terrace is open
to all the public.",
  "category": "4",
  "booking_items": [
    {
      "rooms": [
        {
          "room_reference": 1234,
          "pax_ids": [
            1
          ],
          "no_of_children": 0,
          "no_of_adults": 1,
          "bed_type": {
            "type": "1 queen and 1 sofa bed",
            "id": 68
          }
        }
      ],
      {
        "room_reference": 1235,
        "pax_ids": [
          2,
          3,
          4
        ],
        "no_of_children": 1,
        "no_of_adults": 2
      }
    ]
  ],
  "room_code": "4pgvnpjw7qusluc33xsqkf6441jkvqfk7k3ozuds2fdbr7pkc7ixrbxv",
  "price": 23230.38,
  "non_refundable": true,
  "currency": "INR",
  "cancellation_policy": {
    "under_cancellation": true,
    "details": [
      {
        "percent": 100,
        "from": "2016-11-03T07:34:37.860201Z",
        "currency": "INR"
      }
    ]
  }
}

```

```

    }
  ],
  "amount_type": "percent"
},
"boarding_details": []
}
],
"address": "Plaza Puente 3 07014 Palma de Mallorca"
},
"holder": {
  "title": "Mr.",
  "surname": "Pitt",
  "phone_number": "6614565589",
  "name": "Brad",
  "email": "oliver@queen.com",
  "client_nationality": "fr"
},
"currency": "INR",
"checkout": "2016-11-30",
"checkin": "2016-11-29",
"booking_reference": "xgydwcfeelifyutcef3liypd2y",
"booking_id": "GRN-201611-000008",
"booking_date": "2016-11-03 07:34:38",
"booking_comment": "Testing",
"additional_info": {
  "tax_information": "SalesTax and HotelOccupancyTax(if charged) are included in TaxAndServiceFee",
  "spl_checkin_instructions": "Extra-person charges may apply and vary depending on property policy. <br />Government-issued photo identification and a credit card are required at check-in for incidental charges. <br />Special requests are subject to availability upon check-in and may incur additional charges. Special requests cannot be guaranteed. <br />",
  "checkin_instructions": "Extra-person charges may apply and vary depending on property policy. <br />Government-issued photo identification and a credit card are required at check-in for incidental charges. <br />Special requests are subject to availability upon check-in and may incur additional charges. Special requests cannot be guaranteed. <br />"
}
}
}

```

11. Fetch a Booking with booking reference

You can use this method to fetch a single booking using booking reference.

Method	URL
GET	api/v3/hotels/bookings/<bref>

<bref> refers to the 'booking_reference' returned in the booking response.

11.1 Error Codes

HTTP Status Code	Error Code	Description
404	5121	Booking not found
200	2002	Invalid Booking Reference

12. Cancellation Request

12.1 Request

Method	URL
DELETE	api/v3/hotels/bookings/<bref>

<bref> refers to the 'booking_reference' returned in the booking response.

12.2 Payload

Attribute	Type	Required	Description
comments	string	OPTIONAL	Cancellation comments

12.3 Sample Cancellation Payload

```
{  
  "comments": "cancellation comments"  
}
```

13. Cancellation Response

13.1 Response

Attribute	Type	Description
cancellation_reference	string	Unique cancellation code
cancellation_comments	string	Cancellation message
status	string	Cancellation status will be one of the following <ul style="list-style-type: none">● Confirmed● Failed● Rejected● Pending
cancellation_charges	object	When available, cancellation charges are returned as shown below <pre>{ "amount": 346.42, "currency": "EUR" }</pre>
booking_id	string	Booking ID
booking_reference	string	Booking reference
booking_price	object	Booking price as shown below <pre>{ "amount": 346.42, "currency": "EUR" }</pre>

13.2 Error Codes

HTTP Status Code	Error Code	Description
200	2003	Booking has already been cancelled
200	2002	Invalid Booking Reference
200	5120	Request timed out at supplier's end
404	5121	Booking not found
200	5151	This Booking cannot be cancelled from Supplier's end. Supplier does not support cancellation from API if the cancel_by_date has crossed or is under_cancellation
200	2006	Need confirmation from supplier
200	5143	Past booking items cannot be cancelled
200	5142	Changes cannot be done to this booking item

13.3 Sample Cancellation Response

```
{
  "status": "confirmed",
  "cancellation_reference": "2ufj67x2eabp75a",
  "cancellation_comments": "cancellation comments",
  "cancellation_charges": {
    "currency": "EUR",
    "amount": 346.32
  },
  "booking_reference": "i5wpusut6fwflba",
  "booking_price": {
    "currency": "EUR",
    "amount": 346.32
  },
  "booking_id": "GRN-201611-000001"
}
```

14. Fetch Bookings List

You can use this method to fetch all bookings and cancellations.

Method	URL
GET	api/v3/hotels/bookings

Parameters

Attribute	Type	Required	Description
filter_type	string	OPTIONAL	'booking_date' to fetch bookings based on booking date 'checkin_date' to fetch bookings based on check-in date Defaults to 'booking_date'
start	date	OPTIONAL	The starting date for the given filter type
end	date	OPTIONAL	The end date for the given filter type
from	string	REQUIRED if 'start' is given	Booking reference of the starting item
count	integer	OPTIONAL	Number of bookings to fetch Maximum value is 100 Defaults to 30
direction	string	REQUIRED if 'from' is given	'next' to fetch the next 'count' bookings 'prev' to fetch the previous 'count' bookings
type	string	OPTIONAL	Type of the booking 'B' to fetch bookings 'C' to fetch cancellations When type is not specified, both types are fetched

Note

- 'start' and 'end' date duration cannot exceed 30 days
- When no options are given, recent 30 bookings will be fetched (both types)

14.1 Sample Response

```
{
  "bookings": [
    {
      "supports_cancellation": true,
      "supports_amendment": true,
      "supplier_reference": "271437086",
      "supplier_booking_status": "confirmed",
      "search_id": "5rcczvt6gomyss6yeuuojdpod4",
      "price": {
        "total": 856.2
      },
    },
    "hotel": {
      "paxes": [
```

```

    {
      "type": "AD",
      "surname": "omer",
      "pax_id": 1,
      "name": "yusuf"
    }
  ],
  "hotel_code": "H!0007061",
  "country_code": "IT",
  "city_code": "C!001175",
  "category": 3,
  "booking_items": [
    {
      "rooms": [
        {
          "room_type": "DB",
          "room_reference": "1234",
          "pax_ids": [
            1
          ],
          "no_of_infants": 0,
          "no_of_children": 0,
          "no_of_adults": 2
        }
      ],
      "room_code": "g42tmlrsga5duvktiq5dumrqge4dmbtha2duorsgaydcojwga2tg",
      "rate_key": "mvrwizrnmiztallfgbqwiljuhfrds1lbmftgkljqgizwgobyhe4wmmtb-
gq",
      "rate_comments": null
    }
  ]
},
"holder": {
  "surname": "Omer",
  "phone_number": "6614565589",
  "name": "yusuf",
  "email": "omer@techgenie.com"
},
"currency": "USD",
"checkout": "2016-12-09",
"checkin": "2016-12-05",
"booking_type": "B",
"booking_reference": "eipdlssaffeyrzwj3u3mcasdsa",
"booking_name": "asdasd",
"booking_date": "2016-11-02 10:57:50",
"bid": "GRN-201611-000001"
}
],
"total": 1,
"count": 20,
"from": 1
}

```

15. Images

You can use this method to fetch images for a given hotel using hotel_code.

Method	URL
GET	api/v3/hotels/<hcode>/images

<hcode> refers to the 'hotel_code' returned in the search response.

N.B: All image paths should be prefixed with the base url : <https://cdn.grnconnect.com/>

Example : <https://cdn.grnconnect.com/hotels/images/fa/67/fa67573977698e4442dd4c301168a-20c9bd411b4.jpg>

15.1 Response

Attribute	Type	Description
Images	object	An object of image paths grouped by size.

Images

Attribute	Type	Description
regular	array	Contains the list of image paths
small	array	Contains the list of image paths
large	array	Contains the list of image paths

15.2 Error Codes

HTTP Status Code	Error Code	Description
200	1507	Invalid hotel code
200	5137	No images found for the hotel
404	5002	Hotel not found

15.3 Sample Response

```
{
  "images": {
    "regular": [
      {
        "path": "hotels/images/fa/67/fa67573977698e4442dd4c301168a20c9bd411b4.jpg"
      },
      {
        "path": "hotels/images/e4/14/e414d4545fe00cd16336ab91af20ccdc4ccdec31.jpg"
      }
    ]
    "small": [
      {
        "path": "hotels/images/ff/e7/ffe7d4545fe00cd16336ab91af20ccdc4ccdec31.jpg"
      }
    ],
    "large": [
      {
        "path": "hotels/images/07/1d/071dd4545fe00cd16336ab91af20ccdc4ccdec31.jpg"
      }
    ]
  }
}
```

16. Static Assets

All required static assets can be downloaded from the following url.

URL : <https://cdn.grnconnect.com/static-assets/>

The above link will contain the master data for the following:

- Country codes
- Destination codes
- City codes
- Airport codes
- Currency codes

APPENDIX

A1. Response Schema

Responses sent by GRNconnect API servers conform to the following structure.

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "id": "/api/v3/response-schema#",
  "title": "Response Schema",
  "description": "Schema definition for a compliant API response",
  "type": "object",
  "properties": {
    "oneOf": [
      {
        "$ref": "#/definitions/data"
      },
      {
        "$ref": "#/definitions/error"
      }
    ],
    "links": {
      "type": "array",
      "items": {
        "$ref": "#/definitions/link"
      },
      "uniqueItems": true
    },
    "meta": {
      "$ref": "#/definitions/meta"
    }
  },
  "definitions": {
    "data": {
      "type": "object",
      "description": "The primary payload of the request.",
      "properties": {
        "type": {
          "type": "string",
          "description": "The unique name of the resource class.",
          "minLength": 1
        },
        "id": {
          "type": "string",
          "description": "The unique ID of the resource.",
          "minLength": 1
        },
        "revision": {
          "type": "integer",
          "description": "A monotonously increasing version number.",
          "minimum": 1
        },
        "attributes": {
          "type": "object",
          "description": "Data members of the resource.",
          "minProperties": 1
        }
      }
    }
  }
}
```

```

"links": {
  "type": "array",
  "description": "Relationship information of the current resource to other
resources.",
  "items": {
    "$ref": "#/definitions/link"
  },
  "uniqueItems": true
},
},
"required": [
  "type"
],
"additionalProperties": false
},
"link": {
  "type": "object",
  "properties": {
    "rel": {
      "type": "string",
      "description": "Specification of the relationship.",
      "minLength": 1
    },
    "href": {
      "type": "string",
      "description": "Absolute or relative URI pointing to the related resource.",
      "format": "uri"
    }
  },
  "required": ["rel", "href"],
  "additionalProperties": true
},
"error": {
  "type": "object",
  "properties": {
    "code": {
      "type": "string",
      "description": "Application-specific error code.",
      "minLength": 1
    },
    "title": {
      "type": "string",
      "description": "A short description of the error; in English.",
      "minLength": 1,
      "maxLength": 150
    },
    "message": {
      "type": "string",
      "description": "A more detailed description of the error; localised.",
      "minLength": 10,
      "maxLength": 10000
    }
  },
  "required": ["code", "title", "message" ],
  "additionalProperties": true
},
},

```

```

"meta": {
  "properties": {
    "status": {
      "type": "string",
      "description": "HTTP status code of this response."
    },
    "message": {
      "type": "string",
      "description": "Associated information, if any."
    }
  },
  "required": [ "status" ],
  "additionalProperties": true
},
"required": [ "meta" ]
}

```

Thus, the top-level object MAY contain either “data” or “error” sub-objects, but not both. They are both OPTIONAL, however. A valid response MAY have neither of them included in a response.

The OPTIONAL array “links” MAY have link resources to aiding in navigation or context-specific actions. Consumers of GRNconnect API can ignore this currently.

The REQUIRED member “meta” contains a copy of the message’s HTTP status code associated with this response, as well as OPTIONAL additional information. Such information MAY provide additional context, where applicable.

The response payloads described in this document, accordingly, are the “data” part of this schema definition.

GRNconnect may revise the schema or other data definitions from time to time, in order to best serve the evolving needs of the API.