Description: REST API Guide
Version: 1.0.5
Intended Audience: General / Web Developers / IT Managers
Date Last Update: 2023-06-01
Application Versions: LinksRez Hotel REST API – Open Travel Hotel 2.0

Table 1. Document Management

Name	Role	Contacts
Ivan Gudak	Author	igudak@linksrez.com
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Table 2. Revision History

Version	Reason for Change	Updated by	Date
1.0.0	Created initial version	Ivan Gudak	May 28, 2022
1.0.1	Minor fixes	Ivan Gudak	Jun 07, 2022
1.0.2	Minor fixes	Ivan Gudak	Jun 12, 2022
1.0.3	Best Available Rate and Rates Caching	Ivan Gudak	Jul 24, 2022
1.0.4	Minor updates	Jim Wood	Sept 15, 2022
1.0.5	Updated requests and responses	Mariano Tonina	Jun 07, 2023

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About the Developer's Guide

The purpose of this document is to provide a set of instructions, guidelines and technical information needed to interact with the LinksRez Hotel REST API. This is a programmer's guide. The reader should be familiar with the underlying technologies used, including HTML, REST Services and JSON.

Information contained in this document is subject to change. LinksRez will be diligent in notifying you of changes through release notifications.

Customer Registration

Before using the LinksRez Hotel REST API service, customers must register in the LinksRez Developer Portal. Please use the signup link to fill in the client registration form. After you submit your data, you will receive a confirmation email and your account will be activated.

On the developer portal you will find swagger documentation and authentication key that you can find on the applications page.

Upon request you will receive a PDF-file with the detailed instructions about how to use swagger, find the authentication information, and our postman collection, which will help you integrate with the LPA-Hotels smoothly.

Note: You will have access to the staging environment. When you complete your integration and testing, you are welcome to request access to the production environment.

Technical Support

You can contact LinksRez Support by emailing tech@linksrez.com if you have questions or issues regarding development or production. When contacting LinksRez it is extremely important that you provide your name, company name, email address, telephone number, and a description of the problem, including the exact wording of any error messages and/or console logs.

Features

The LPA-Hotels REST service provides access to distributed hotel product offerings and associated functionality. This service is intended to be consumed by upstream services such as web-based booking systems. Featured functionality includes:

- Search for hotels by city or latitude/longitude coordinates
- Obtain descriptions, policies, rules and photos of a particular hotel or list of hotels •
Check for room availability of a particular hotel or list of hotels
- Get prices for the available rooms in different rate categories
- Book a hotel room
- Retrieve a booking information
- Cancel a booking

Supported Endpoints

The LinksRez Hotel REST API service supports the requests listed in the table below. The order, in which they are described here, is the physical life cycle of a complete hotel booking flow.

Table 3. LPA-Hotels Endpoints

Stage	Function	Description	Endpoint	Method
Search	Get hotels by location	Returns a list of hotels around the specified location. Either {latitude/longitude} or {city/state/country} parameters set is mandatory.	/api/v2/hotel	GET
Describe	Get descriptions for a hotel	Obtain description, address, photos, policies, and rules for one hotel.	/api/v2/description	GET
	Get descriptions for hotels	Obtain description, address, photos, policies, and rules for multiple hotels.	/api/v2/description	POST
Offers	Get Offers	Gather availability and pricing for different room types.	/api/v2/offers	GET
	Get Offers Advanced	Alternative way to get availability and pricing, enables advanced queries.	/api/v2/offers	POST
	Best Available Rates	Returns one rate per property, which is the best available rate for the searched dates, guests, and other conditions. Supposed to be called together with "Describe" to display the search results page. Works must be faster than the "all rates" code.	/api/v2/offers	POST
Orders	Create Orders	Create an order at a specific facility for a specific stay date	/api/v2/orders	POST
	Retrieve Order	Retrieve previously created orders	/api/v2/orders	GET
	Modify Orders	Modifies previously created orders	/api/v2/orders	PUT
	Cancel Reservation	Cancel previously created order (if possible)	/api/v2/orders	DELETE

Workflow
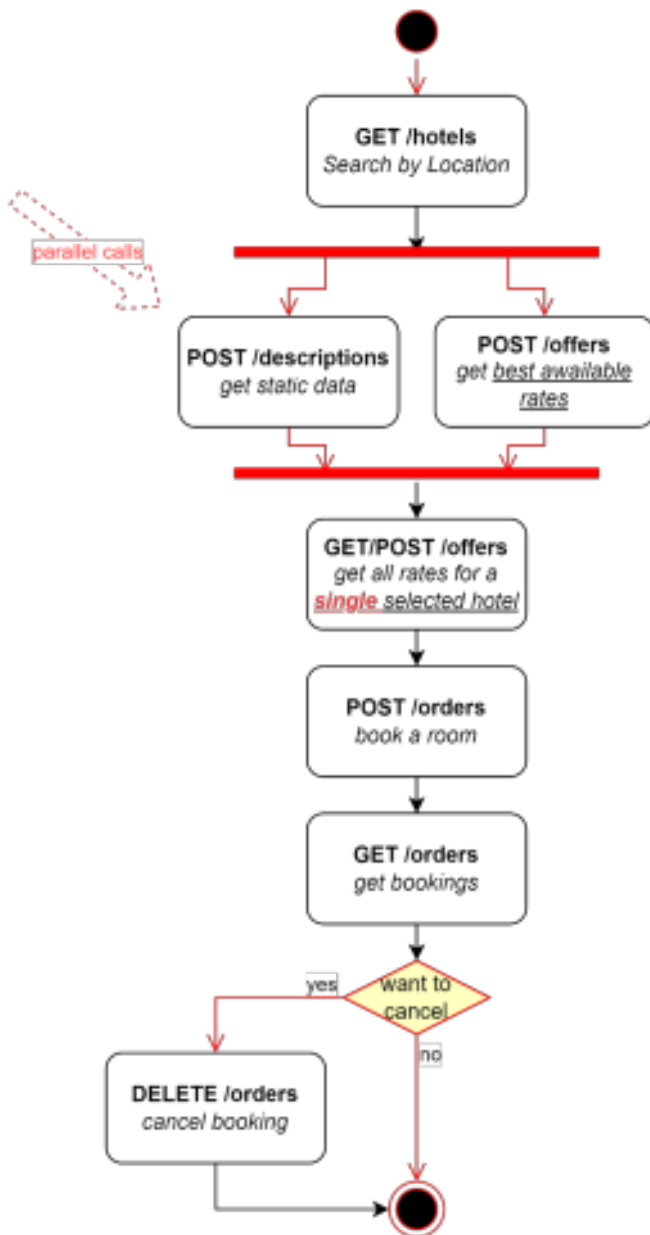
Figure 1. LPA-Hotel Workflow Diagram

1. Search Hotels by Location

The first step of the workflow returns the hotels around the searched point.

Refer Find Hotels for more information.

2. Get Static Data and Get Best Rates

These 2 endpoints are supposed to be called in parallel to achieve the best performance of data transferring on the client side.

*Note: **to avoid performance issues!***
The same endpoint POST /offers is used to return the BEST and ALL rates. The difference is described in the parameters set.
Please make sure you are calling the "best-rate" at this point, as to display the search results you need just one price per property. No need to call the slow variation "all rates" of the POST /offers method at this point.

Refer Description and Best Available Rate for more information.

3. Get All Offers

If the user selected a hotel to go into details, use this endpoint to get all availability and pricing options.

*Note: **to avoid performance issues!***
This method supports multiple hotels in the request, and can return all rates for all rooms for all hotels in the request. However, it is strongly recommended to call this method for a few hotels as possible to avoid long-waiting on the client side.

Refer Offers for more information.

4. Book a Room
Refer Create Order for more information.

5. Get a booking
Returns an order by its ID and client's last name. Refer Retrieve Order for more information.

6. Cancel Booking
Refer Cancel Order for more information.

Authentication

The LPA-Hotel API is authenticated by an api-key that can be found on the applications page. This key should be sent in the header of each request to the LPA-Hotels.

```
accept: application/json
Accept-Encoding: gzip, deflate, br
Accept-Language: en-US,en;q=0.9
api_key: 1f7ab3c902f3e24a432c13b423f24ea4b
Connection: keep-alive
Host: hotel-api.production.gw.apicast.io
Origin: https://developer.linksrez.com
Referrer: https://developer.linksrez.com/
```

Endpoint Details

Search

Get hotels by location - by city

GET	/api/v2/hotel

Request

The Find Hotels endpoint is used to search for hotels by location. The endpoint will return a list of hotel codes with simple information about the hotel, including facilityCode, brand, chain, location, and name.

There are currently two options to search for hotels: city, state, country, or latitude/longitude. A specific chain may be searched by specifying the chainCode.

Table 4. Search hotels by city. Request

Name	Required	Type	Description
city	Y	String	City to search in
state	Y	String	Two letter state/province code. If non-US, must be the same as country code
country	Y	String	ISO 3166-1 alpha-2 country code
distanceunit	N	String	Defaults to miles, set to 'km' for kilometers
distance	Y	Integer	Distance (in distance units) from the city center to return results. Take this as the radius of the search circle.
chainCode	N	String	Two letter code of the hotel chains. Leave empty to search all chains.

Example Request

Search in Boston, 5 miles from the city center. Hilton only
`/api/v2/hotel?city=Boston&state=MA&country=US&distance=5&distanceunit=M&chainCode=EH`

Search in Paris, 10 km from the city center. All chains
`/api/v2/hotel?city=Paris&state=FR&country=FR&distance=10&distanceunit=km`

Table 5. Search hotels by latitude/longitude. Request

Name	Required	Type	Description
latitude	Y	Decimal	Latitude of reference point
longitude	Y	Decimal	Longitude of reference point
distanceunit	N	String	Defaults to miles, set to 'km' for kilometers
distance	Y	Integer	Distance (in distance units) from the city center to return results. Take this as the radius of the search circle.
chainCode	N	String	Two letter code of the hotel chains. Leave empty to search all chains.

Get hotels by location - by coordinates

Example Request

Search in Paris, 10 km from the point. All chains
```
/api/v2/hotel?latitude=48.864716&longitude=2.349014&distance=10&distanceunit=km
```

Response

The response will contain a FindHospitalityFacilities_RS message in JSON format. The response contains an array of FacilityHotel objects. The FacilityHotel object contains information about a hotel facility.

Table 6. Search hotels. Response. FacilityHotel

Name		Description
location		The location information of the facility
relativePosition		The information about the distance to the facility from a well-known object(s)
basicPropertyInfo	**name**	Name of the facility
	code	Unique identifier of the facility in the chain. May repeat in a different chain.
	chainCode	Chain code – should be selected from the pre-defined list of supported chains (look at the swagger file for the exhaustive list of supported chains)
	brandCode	Brand identifier. Usually, two letter code. Should be taken from the response of one of the search endpoints

Example Response
```
[
  {
    "@type": "FacilityHotel",
    "location": {
      "address": {
        "addressLine": [],
        "bldgRoom": [],
        "street": "108 Rue Saint Lazare",
        "city": "Paris",
        "country": {
          "value": "FR"
        },
        "postalCode": "75008"
      }
    },
    "relativePosition": {
      "distance": "1.3"
    },
    "basicPropertyInfo": {
      "code": "PAROP",
      "name": "Hilton Paris Opera",
      "chainCode": "EH",
      "brandCode": "HI"
    }
```

```
          },
          {
            "@type": "FacilityHotel",
            "location": {
              "address": {
                "addressLine": [],
                "bldgRoom": [],
                "street": "11 Rue d'Astorg",
                "city": "Paris",
                "country": {
                  "value": "FR"
                },
                "postalCode": "75008"
              }
            },
            "relativePosition": {
              "distance": "1.46"
            },
            "basicPropertyInfo": {
              "code": "PARAH",
              "name": "Maison Astor Paris, Curio Collection by Hilton",
              "chainCode": "EH",
              "brandCode": "QQ"
            }
          }
        ]
```

Description

Get descriptions for a hotel

| GET | /api/v2/hotel/description |

The Description endpoint is used to obtain additional information about the hotels. The information includes verbose description, policies, photos, rules. The GET variation can work with a single hotel at a call.

Request

Table 7. Get Description of a single hotel. Request

Name	Required	Type	Description
chainCode	Y	String	Chain code – should be selected from the pre-defined list of supported chains (look at the swagger file for the exhaustive list of supported chains)
brandCode	Y	String	Brand identifier. Usually, two letter code. Should be taken from the response of one of the search endpoints
facilityCode	Y	String	The identifier of a particular property/facility/hotel. Unique within its chain. Should be taken from the response of one of the search endpoints.

Example Request

/api/v2/hotel/description?chainCode=EH&facilityCode=BOSTBT&brandCode=HX

Response

The response will contain basicPropertyInfo, hotelPropertyInfo, facilityInfo, hotelPolicies, areaInformation, affiliationInfo, multimediaCollection, contactInformation objects in JSON format.

Table 8. Description. Response. HotelPropertyInfo

Name	Description
basicPropertyInfo	Base information such as chain, brand, facilityCode, city and some extra information
hotelPropertyInfo	Hotel 's Amenities.
facilityInfo	Extra rooms and their policies (guests room, meeting rooms, etc.)
hotelPolicies	Hotel Policies, such as checkin and checkout time, pets, smoking rules, etc.
areaInformation	Recreation and other important object available in the area
affiliationInfo	Affiliation Data
multimediaCollection	Verbose description and images
contactInformation	Address and phones

Table 9. Description hotels. Response. BasicPropertyInfo

Name	Description
code	Hotel identifier (unique within a chain). Known also as "facilityCode'' and "propertyCode"
name	Full name of the hotel
chainCode	Two letter identifier of the hotel chain
brandCode	Two letter identifier of the brand (a chain may have multiple brands)
cityCode	The code of the city where the hotel is located
extensionPoint	Latitude, longitude, and verbose description of the hotel

Table 10. Description hotels. Response. HotelPropertyInfo.

Name	Description
serviceHotelAmenity	Array of Amenities: meeting rooms, pools, wheelchair access, high-speed internet, etc.
description	Array of strings (text fields) to describe the amenity in details
inventoryCode	The identifier of the amenity
codeDetail	The short description of the amenity

Table 11. Description hotels. Response. FacilityInfo

Name	Description
meetingRooms	Array of meetingRoom objects, with description and policies
guestRooms	Array of guestRoom objects, with description and policies

Table 12. Description hotels. Response. HotelPolicies.

Name	Description
hotelPolicy (array)	hotelPolicyInformation. checkInTime and checkoutTime in YYYY-MM-DD HH:MM A/PM TZ format. The date part is to be ignored (always 1970-01-01)

Table 13. Description hotels. Response. AreaInformation.

Name	Description
recreation (array)	Bi-dimensional array of text blocks to describe the area.

Table 14. Description hotels. Response. AffiliationInfo.

Name	Description
award (array)	Array of text blocks to describe the affiliation

Table 15. Description hotels. Response. MultimediaCollection.

Name	Description
multimedia (array)	Array of textual data and images
textCategory	Array of text objects describing the hotel
imageCategory	Array of image objects, each consist of array of URLs to the images

Table 16. Description hotels. Response. ContactInformation.

Name	Description
address (array)	Array of address objects
telephone (array)	Array of phones of different types (voice, fax, etc.)

Example Response

```
    {
      "basicPropertyInfo": {
        "code": "BOSBT",
        "name": "Hampton Inn Boston/Braintree",
        "chainCode": "EH",
        "brandCode": "HX",
        "cityCode": "BOSBTHX",
        "extensionPoint": {
          "any": [
            {
              "latitude": "42.22407900000",
              "longitude": "-71.0356050000",
              "hotelDescription": "where presidents meet powdered  doughnuts...welcome to
    the Hampton Inn Boston/Braintree. Historic Downtown Boston is  just moments away,
    making the Hampton Inn® hotel in Boston/Braintree a perfect  location for anyone who
    longs to learn more about our country's history. Spend a few  moments strolling the
    cobblestone streets where Independence was born and where  Adams, Kennedy, and Quincy
    Adams shaped our futures. Our unique location also places  us just 10 miles south of
    Fenway Park, the Boston Convention and Exhibition Center,  the North End Italian
    neighborhood and within several Dunkin Donuts locations and  those famous powdered
    doughnuts. So come, check into the Hampton Inn hotel in  Boston/Braintree, and see the
    neighborhoods where presidents meet powdered doughnuts. services & amenities. Here at
    the Hampton Inn Boston/Braintree, we're passionate about  taking good care of you.
    That's why we offer a broad range of services and amenities  to make your stay
    exceptional. Whether you're planning a corporate meeting or need  accommodations for a
    family reunion or your child's sporting group, we're delighted to  offer you easy
    planning and booking tools to make the process quick and organized. *  Meetings &
    Events * Local restaurant guide"
            }
          ]
        }
      },
      "hotelPropertyInfo": {
      "serviceHotelAmenity": [
        {
          "description": {
            "text": [
              {}
            ]
          },
          "inventoryCode": "24",
          "codeDetail": "Meeting Rooms"
        },
        {
```

```
            "description": {
              "text": [
                {}
              ]
            },
            "inventoryCode": "71",
            "codeDetail": "Pool"
          },
          {
            "description": {
              "text": [
                {}
              ]
            },
            "inventoryCode": "101",
            "codeDetail": "Wheelchair access"
          },
          {
            "description": {
              "text": [
                {}
              ]
            },
            "inventoryCode": "178",
            "codeDetail": "High Speed Internet"
          },
          {
            "description": {
              "text": [
                {}
              ]
            },
            "codeDetail": "Business Center"
          }
        ]
      },
      "facilityInfo": {
        "meetingRooms": {},
        "guestRooms": {
          "guestRoom": [
            {
              "descriptiveContentAmenity": [{
                "roomAmenity": {
                  "value": "140"
                },
                "description": {
                  "text": [
                    {
                      "value": "Pets Allowed"
                    }
                  ]
                }
              }
            }
          ]
        }
      ]
    }
  },
  "hotelPolicies": {
    "hotelPolicy": [
      {
```

```json
          "hotelPolicyInformation": {
            "checkInTime": "1970-01-01 15:00 PM UTC",
            "checkOutTime": "1970-01-01 12:00 PM UTC"
          }
        }
      ]
    },
    "areaInformation": {
      "recreation": [
        {
          "description": {
            "text": [
              {}
            ]
          }
        },
        {
          "description": {
            "text": [
              {}
            ]
          }
        }
      ]
    },
    "affiliationInfo": {
      "award": [
        {}
      ]
    },
    "multimediaCollection": {
      "multimedia": [
        {
          "textCategory": {
            "text": [
              {}
            ]
          },
          "imageCategory": {
            "image": [
              {
                "url": "image.png"
              }
            ]
          }
        }
      ]
    },
    "contactInformation": [
      {
        "address": [
          {
            "addressLine": [
              "215 Wood Road"
            ],
            "bldgRoom": [],
            "street": "215 Wood Road",
            "city": "Braintree",
            "stateProv": {
              "name": "MA"
            },
```

```
        "country": {
          "name": "US"
        },
        "postalCode": "02184"
      }
    ],
    "telephone": [
      {
        "phoneNumber": "17813803300",
        "phoneTechType": {
          "value": "VOICE"
        }
      },
      {
        "phoneNumber": "17813803720",
        "phoneTechType": {
          "value": "FAX"
        }
      }
    ]
  }
]
}
```

Get descriptions for hotels

POST   /api/v2/hotel/description

The Description endpoint is used to obtain additional information about the hotels. The information includes verbose description, policies, photos, rules. The POST variation can work with multiple hotels at a time.

Table 17. Get Description of multiple hotels. hotelDescriptionRQArray. Request.

Name	Required	Type	Description
chainCode	Y	String	Chain code – should be selected from the pre-defined list of supported chains (look at the swagger file for the exhaustive list of supported chains)
brandCode	Y	String	Brand identifier. Usually, two letter code. Should be taken from the response of one of the search endpoints
facilityCode	Y	String	The identifier of a particular property/facility/hotel. Unique within its chain. Should be taken from the response of one of the search endpoints.

Example Request
```
{
  "hotelDescriptionRQArray": [
    {
      "chainCode": "EH",
      "brandCode": "PY",
      "facilityCode": "CHIJB"
    },
    {
      "chainCode": "EH",
      "brandCode": "HX",
      "facilityCode": "CHITD"
    },
    {
      "chainCode": "EH",
      "brandCode": "DH",
      "facilityCode": "CHINP"
```

```
          }
      ]
    }
```

Response

The response will contain the array of hotelDescriptiveContent objects, which consists of {basicPropertyInfo, hotelPropertyInfo, facilityInfo, hotelPolicies, areaInformation, affiliationInfo, multimediaCollection, contactInformation} objects in JSON format. Every object in the response corresponds to an object in the request.

Table 18. Get Description. Response. HotelDescriptiveContent

Name	Description
hotelDescriptiveContent (array)	Array of {basicPropertyInfo, hotelPropertyInfo, facilityInfo, hotelPolicies, areaInformation, affiliationInfo, multimediaCollection, contactInformation}. See above for more info about each of these subObjects

Example Response

```
[
  {
    "basicPropertyInfo": {
      "code": "CHIJB",
      "name": "Canopy by Hilton Chicago Central Loop",
      "chainCode": "EH",
      "brandCode": "PY",
      "cityCode": "CHIJBPY"
    },
    "hotelPropertyInfo": {
      "serviceHotelAmenity": [
        {
          "description": {
            "text": [
              {}
            ]
          },
          "inventoryCode": "24",
          "codeDetail": "Meeting Rooms"
        },
        {
          "description": {
            "text": [
              {}
            ]
          },
          "inventoryCode": "101",
          "codeDetail": "Wheel chair access"
        },
        {
          "description": {
            "text": [
              {}
            ]
          },
          "inventoryCode": "178",
          "codeDetail": "High Speed Internet"
        },
        {
          "description": {
```

```json
            "text": [
              {}
            ]
          },
          "codeDetail": "Business Center"
        }
      ]
    },
    "facilityInfo": {
      "meetingRooms": {},
      "guestRooms": {
        "guestRoom": [
          {
            "descriptiveContentAmenity": [
              {
                "roomAmenity": {
                  "value": "140"
                },
                "description": {
                  "text": [
                    {
                      "value": "Pets Allowed"
                    }
                  ]
                }
              }
            ]
          }
        ]
      }
    },
    "hotelPolicies": {
      "hotelPolicy": [
        {
          "hotelPolicyInformation": {
            "checkInTime": "1970-01-01 15:00 PM UTC",
            "checkOutTime": "1970-01-01 11:00 AM UTC"
          }
        }
      ]
    },
    "areaInformation": {
      "recreation": [
        {
          "description": {
            "text": [
              {}
            ]
          }
        }
      ]
    },
    "multimediaCollection": {
      "multimedia": [
        {
          "textCategory": {
            "text": [
```

```
                {}
              ]
            },
            "imageCategory": {
              "image": [
                {
                  "url":
"https://connector.prod.linksrez.com/api/image?chainCode=EH&facilityCode=CHIJB"
                }
              ]
            }
          }
        ]
      },
      "contactInformation": [
        {
          "address": [
            {
              "addressLine": [],
              "bldgRoom": [],
              "street": "226 West Jackson Blvd",
              "city": "Chicago",
              "stateProv": {
                "name": "IL"
              },
              "country": {
                "name": "US"
              },
              "postalCode": "60606"
            }
          ],
          "telephone": [
            {
              "phoneNumber": "17738096750",
              "phoneTechType": {
                "value": "VOICE"
              }
            },
            {
              "phoneNumber": "17738096751",
              "phoneTechType": {
                "value": "FAX"
              }
            }
          ]
        }
      ]
    },
    {
      "basicPropertyInfo": {
        "code": "CHITD",
        "name": "Hampton Inn Majestic Chicago Theatre District",
        "chainCode": "EH",
        "brandCode": "HX",
        "cityCode": "CHITDHX",
        "extensionPoint": {
          "any": [
```

```
            {
                "latitude": "41.88070000000",
                "longitude": "-87.6284430000",
                "hotelDescription": "where the applause never fades...welcome to the Hampton Inn
Majestic (Chicago Theatre District), ILAll the world may be a stage, but you have to see
ours: Its bigger, brighter and simply amazing. The Hampton Inn® hotel in Majestic (Chicago
Theatre District), IL sits in the heart of the Windy Citys cultural district. In fact, our
historic hotel in Chicago is home to the Bank of America Theatre, one of the city grand
dames. Today, the theatre has hosted productions ranging from Rent to Billy Joel and Twyla
Tharps MovinOut.Palaces of the stage surround our hotel in Chicago, as well as many museums,
restaurants and parks. Its a cultural paradise. So come check into the Hampton Inn Majestic
(Chicago Theatre District), IL, where the applause never fades.services & amenitiesHere at
the Hampton Inn Majestic (Chicago Theatre District), IL, were passionate about taking good
care of you. Thats why we offer a broad range of services and amenities to make your stay
exceptional.Whether youre planning a corporate meeting or"
            }
        ]
    }
},
"hotelPropertyInfo": {
    "serviceHotelAmenity": [
        {
            "description": {
                "text": [
                    {}
                ]
            },
            "inventoryCode": "101",
            "codeDetail": "Wheel chair access"
        },
        {
            "description": {
                "text": [
                    {}
                ]
            },
            "inventoryCode": "178",
            "codeDetail": "High Speed Internet"
        },
        {
            "description": {
                "text": [
                    {}
                ]
            },
            "codeDetail": "Business Center"
        }
    ]
},
"facilityInfo": {
    "meetingRooms": {},
    "guestRooms": {
        "guestRoom": [
            {
                "descriptiveContentAmenity": [
                    {
                        "roomAmenity": {
                            "value": "140"
```

```json
                },
                "description": {
                  "text": [
                    {
                      "value": "Pets Allowed"
                    }
                  ]
                }
              }
            ]
          }
        ]
      }
    },
    "hotelPolicies": {
      "hotelPolicy": [
        {
          "hotelPolicyInformation": {
            "checkInTime": "1970-01-01 16:00 PM UTC",
            "checkOutTime": "1970-01-01 12:00 PM UTC"
          }
        }
      ]
    },
    "areaInformation": {
      "recreation": [
        {
          "description": {
            "text": [
              {}
            ]
          }
        },
        {
          "description": {
            "text": [
              {}
            ]
          }
        }
      ]
    },
    "affiliationInfo": {
      "award": [
        {}
      ]
    },
    "multimediaCollection": {
      "multimedia": [
        {
          "textCategory": {
            "text": [
              {}
            ]
          },
          "imageCategory": {
            "image": [
```

```
                {
                    "url":
"https://connector.prod.linksrez.com/api/image?chainCode=EH&facilityCode=CHITD"
                }
            ]
        }
    }
    ]
    },
    "contactInformation": [
    {
        "address": [
        {
            "addressLine": [
                "22 W. Monroe"
            ],
            "bldgRoom": [],
            "street": "22 W. Monroe",
            "city": "Chicago",
            "stateProv": {
                "name": "IL"
            },
            "country": {
                "name": "US"
            },
            "postalCode": "60603"
        }
        ],
        "telephone": [
        {
            "phoneNumber": "13123325052",
            "phoneTechType": {
                "value": "VOICE"
            }
        },
        {
            "phoneNumber": "13123325051",
            "phoneTechType": {
                "value": "FAX"
            }
        }
        ]
    }
    ]
}, {...}
]
```

Offers

Get Offers

| GET | /api/v2/hotel/offers |

The Offers endpoint is used to get room availability and prices for different room types and various rate schemas. The endpoint will return a list of room types with their pricing options.

Table 19. Get Hotel's offers. Request

Name	Required	Type	Description
chain	Y	String	Chain code – should be selected from the pre-defined list of supported chains (look at the swagger file for the exhaustive list of supported chains)
brand	Y	String	Brand identifier. Usually, two letter code. Should be taken from the response of one of the search endpoints
facility	Y	String	The identifier of a particular property/facility/hotel. Unique within its chain. Should be taken from the response of one of the search endpoints.
start	Y	date	Start of the reservation. Format 'YYYY-MM-DD'. Must be less than end
end	Y	date	End of the reservation. Format 'YYYY-MM-DD'. Must be greater than start
guestcounts	N	Integer	Number of adult guests. Default = 1
roomquantity	N	Integer	Number of rooms. Default = 1

Example Request

```
/api/v2/hotel/offers?chain=EH&code=FSTGS&start=2022-05-22&end=2022-05
- 25&roomquantity=2&guestcounts=2
```

Get Offers Advanced

POST | /api/v2/hotel/offers

The offers endpoint also can be used in a POST call to enable advanced requests. It allows calling multiple brands, filter by room types, policy options (such as smoking, pets). Also, more complex guest count objects can be used to indicate the number of adults and children. The endpoint will return a list of room types with their pricing options.

Request

Table 20. POST Hotels' offers. Request. productQueries_Hospitality.

Name	Required	Type	Description
roomStayQueryProduct	Y	Object	Contains property info, stay dates and guest counts

Table 21. roomStayQueryProduct

Name	Required	Type	Description
basicPropertyInfo	Y	Array	Array of objects, each contains brand, chain and the facility code
baseHospitalityFacilityQuery	Y	Object	Contains the stay dates, guest counts, number of rooms needed and a complex filter

Table 22. basicPropertyInfo_Detail

Name	Required	Type	Description
name	N	String	Name of the facility. Not used
cityCode	N	String	Identifies the city or area (for some providers)
chainCode	Y	String	Two letter chain identifier
chainName	N	String	The name of the chain. Not used
brandCode	Y	String	Two letters brand identifier
brandName	N	String	Brand name. Not used
code	Y	String	Facility identifier. Unique within the chain

Table 23. baseHospitalityFacilityQuery

Name	Required	Type	Description
dateTimeSpan	Y	Object (date range)	Start and end dates of stay. Date format is YYYY-MM-DD
guestCount	Y	Array	Array of objects that identify guest types and numbers, e.g., number of adults, seniors, children, etc.
rateRange	N	decimal range	Minimum and maximum rates to filter the offers
detailedHotelSearchCriteria	N	Object	Can contain locations that can be used by providers to narrow the number of offers returned. Indicators such as pets allowed, room amenities, and features can be specified
roomTypeCode	N	Object	Provider specific room code
ratePlanCode	N	Object	Provider-specific rate plan to be used for pricing. Not used
numberOfRooms	N	integer	Number of rooms requested. Default = 1

Example Request

```
{
    "basicPropertyInfo": [{
      "chainCode": "EH",
      "brandCode": "HX",
      "code": "BOSBT"
    }],
    "baseHospitalityFacilityQuery": {
      "dateTimeSpan": {
        "start": "2023-07-15",
        "end": "2023-07-16"
      },
      "detailedHotelSearchCriteria": {
        "petsAllowedInd": "true"
      },
      "guestCount": [
        {
          "ageQualifyingCode": "ADULT",
          "value": "1"
        },
        {
          "ageQualifyingCode": "CHILD",
          "value": "1"
        },
        {
          "ageQualifyingCode": "SENIOR",
          "value": "1"
        }
      ]
    }
  }
```

Response

The response will contain a FindHospitalityFacilities_RS message in JSON format. The response contains an array of HospitalityOffers objects. The HospitalityOffer object contains information about a hotel facility and the list of offers for that facility.

Table 24. Offers. Response. hospitalityOffers

Name	Description
facilityIdentifier	Contains specific information to identify a facility
Offer	The offer will contain an array of offers that include pricing and room information

Table 25. facilityIdentifier

Name	Required	Type	Description
@type	Y	Constant	"FacilityHotel"
facilityKey	Y	object	The unique identifier of the facility

Table 26. facilityKey

Name	Required	Type	Description
@type	Y	Constant	"FacilityKeyHotel"
facilityCode	Y	String	The identifier of a particular property/facility/hotel. Unique within its chain. Should be taken from the response of one of the search endpoints.
chainCode	Y	String	Two letter code of the hotel chains. Leave empty to search all chains.

Table 27. Offers. Response. Offer

Name	Description
TotalPrice	Specific rate information
Product	Specific room information
TermsAndConditions	Guarantee requirements and deposit information

Example Response

```
{
  "offers": [
    {
      "product": [
        {
          "@type": "ProductHospitality",
          "roomStay": {
            "roomType": {
              "code": {
                "value": "KXTY"
              },
              "description": {
                "text": [
                  {
                    "value": "1 KING BED STUDY WITH SOFABED NONSMOKING"
                  },
                  {
                    "value": "HDTV/FREE WI-FI/HOT BREAKFAST INCLUDED"
                  },
                  {
                    "value": "WORK AREA"
```

```json
                }
              ]
            }
          },
          "ratePlan": {
            "description": {
              "text": [
                {
                  "value": "BEST AVAILABLE RATE"
                }
              ]
            },
            "ratePlanCode": {
              "value": "LHH12C",
              "ratePlanCategory": "corporate",
              "promotionVendorCode": []
            },
            "ratePlanType": {
              "value": "CORPORATE"
            },
            "ratePlanName": "BEST AVAILABLE RATE",
            "ratePlanIndicator": "Open"
          },
          "dateTimeSpan": {
            "timeSpan": {
              "start": "2023-07-15 00:00 AM UTC",
              "end": "2023-07-16 00:00 AM UTC"
            },
            "duration": []
          }
        },
        "guestCount": [
          {
            "value": 2,
            "ageQualifyingCode": "ADULT"
          },
          {
            "value": 1,
            "ageQualifyingCode": "CHILD"
          }
        ],
        "numberOfRooms": 9
      }
    ],
    "totalPrice": {
      "total": {
        "value": 213.3,
        "currencyCode": "USD"
      },
      "taxes": {
        "total": {
          "value": 22.34,
          "currencyCode": "USD"
        }
      },
      "productPrice": [
        {
          "@type": "ProductPriceHospitality",
          "roomRate": [
            {
              "taxes": {
```

```
              "total": {
                "value": 22.34,
                "currencyCode": "USD"
              }
            },
            "rate": {
              "value": 213.3,
              "amountBeforeTax": 190.96,
              "currencyCode": "USD"
            }
          }
        ]
      }
    ]
  },
  "termsAndConditions": [
    {
      "cancelPenalties": [
        {
          "deadlineAbsoluteDate": {
            "absoluteDateTime": "2023-07-15 00:00 AM UTC"
          },
          "description": [
            {
              "text": [
                {
                  "value": "24 HR CANCEL REQUIRED"
                }
              ]
            }
          ]
        }
      ],
      "guaranteePolicy": {
        "description": [
          {
            "text": [
              {
                "value": "Hold for Arrival"
              }
            ]
          }
        ],
        "code": "GTD",
        "methods": [
          "CC",
          "CD",
          "CR",
          "FP",
          "TA"
        ]
      }
    }
  ],
  "facilityIdentifier": {
    "@type": "FacilityHotel",
    "facilityKey": {
      "@type": "FacilityKeyHotel",
      "chainCode": "EH",
      "brandCode": "HH",
      "extensionPoint": {
```

```
            "any": [
              {
                "facilityName": "Boston-Braintree, MA"
              }
            ]
          },
          "facilityCode": "BOSBT"
        }
      },
      "extensionPoint": {
        "any": [
          {
            "clientId": "HH-456"
          }
        ]
      }
    }, {...}
  ],
  "extensionPoint": {...}
}
```

Multiple Properties Offers Call

The POST variation of the Offers endpoint supports multiple hotels in the request. BasicPropertyInfo is an array of property objects, where an object represents a property being called. Sending multiple items in the array is the way of obtaining offers from several hotels:

```
{
    "basicPropertyInfo": [
      {
        "chainCode": "EH",
        "brandCode": "HX",
        "code": "BOSBT"
      },
      {
        "chainCode": "EH",
        "brandCode": "GI",
        "code": "BOSLO"
      },
      {
        "chainCode": "EH",
        "brandCode": "HH",
        "code": "BOSLH"
      }
    ],
    "baseHospitalityFacilityQuery": {
      "dateTimeSpan": {
        "start": "2022-07-15",
        "end": "2022-07-16"
      },
      "detailedHotelSearchCriteria": {
        "petsAllowedInd": "true"
      },
      "guestCount": [
        {
          "ageQualifyingCode": "ADULT",
          "value": "1"
        }
      ]
    }
}
```

Best Available Rate

```
POST
```
 /api/v2/hotel/offers

This is exactly the same endpoint as the previous use. To get only the best rate per property, please specify the following parameter in the request:

```
{
  "extensionPoint": {
    "any": [{"cheapestRate":true}]
  }
}
```

Please refer to the previous section (Offers) for the details of the request and response parameters.

Example Request

```
{
  "basicPropertyInfo": [
    {"chainCode":"EH","code":"BOSBT"},
    {"chainCode":"EH","code":"BOSLO"}
  ],
  "baseHospitalityFacilityQuery": {
    "dateTimeSpan": {
      "start": "2024-03-15",
      "end": "2024-03-20"
    },
    "guestCount": [
      {
        "ageQualifyingCode": "ADULT",
        "value": "1"
      }
    ]
  },
  "extensionPoint": {
    "any": [{"cheapestRate":true}]
  }
}
```

Example Response

```
{
  "offers": [
    {
      "product": [
        {
          "@type": "ProductHospitality",
          "roomStay": {
            "roomType": {
              "code": {
                "value": "SXQL"
              },
              "description": {
                "text": [
                  {
                    "value": "2 QUEEN BEDS NONSMOKING"
```

```json
          },
          {
            "value": "HDTV/FREE WI-FI/HOT BREAKFAST INCLUDED"
          },
          {
            "value": "WORK AREA"
          }
        ]
      }
    },
    "ratePlan": {
      "description": {
        "text": [
          {
            "value": "ADVANCE PURCHASE"
          },
          {
            "value": "FULL PAYMENT IN ADVANCE. NON REFUNDABLE."
          },
          {
            "value": "NO CHANGES ALLOWED OR CREDITS GIVEN."
          }
        ]
      },
      "ratePlanCode": {
        "value": "HX4",
        "ratePlanCategory": "corporate",
        "promotionVendorCode": []
      },
      "ratePlanType": {
        "value": "CORPORATE"
      },
      "ratePlanName": "NO CHANGES ALLOWED OR CREDITS GIVEN.",
      "ratePlanIndicator": "Open"
    },
    "dateTimeSpan": {
      "timeSpan": {
        "start": "2024-03-15 00:00 AM UTC",
        "end": "2024-03-20 00:00 AM UTC"
      },
      "duration": []
    }
  },
  "guestCount": [
    {
      "value": 1,
```

```json
                "ageQualifyingCode": "ADULT"
              }
            ],
            "numberOfRooms": 9
          }
        ],
        "totalPrice": {
          "total": {
            "value": 646.15,
            "currencyCode": "USD"
          },
          "taxes": {
            "total": {
              "value": 67.68,
              "currencyCode": "USD"
            }
          },
          "productPrice": [
            {
              "@type": "ProductPriceHospitality",
              "roomRate": [
                {
                  "taxes": {
                    "total": {
                      "value": 67.68,
                      "currencyCode": "USD"
                    }
                  },
                  "rate": {
                    "value": 646.15,
                    "amountBeforeTax": 578.47,
                    "currencyCode": "USD"
                  }
                }
              ]
            }
          ]
        },
        "termsAndConditions": [
          {
            "cancelPenalties": [
              {
                "description": [
                  {
                    "text": [
                      {
```

```json
                            "value": "NON-CANCELABLE"
                          }
                        ]
                      }
                    ]
                  }
              ],
              "guaranteePolicy": {
                "description": [
                  {
                    "text": [
                      {
                        "value": "CREDIT CARD"
                      }
                    ]
                  }
                ],
                "code": "CC",
                "methods": [
                  "CC",
                  "CD",
                  "CR",
                  "FP",
                  "TA"
                ]
              }
            }
          ],
          "facilityIdentifier": {
            "@type": "FacilityHotel",
            "facilityKey": {
              "@type": "FacilityKeyHotel",
              "chainCode": "EH",
              "brandCode": "HH",
              "extensionPoint": {
                "any": [
                  {
                    "facilityName": "Boston-Braintree, MA"
                  }
                ]
              },
              "facilityCode": "BOSBT"
            }
          },
          "extensionPoint": {
            "any": [
```

```
                {
                    "clientId": "HH-456"
                }
            ]
        }
    }
    ],
    "extensionPoint": {
        "any": [
            {...}
        ]
    }
    ]
    }
}
```

Orders

Create Order

POST | /api/v2/hotel/order

POST orders request creates a new order, i.e. books room(s) at a hotel facility. If the order cannot be created the response will contain an appropriate explanation/error message. If the order requires a deposit and no payment information is provided, the order will not be processed and will be rejected with the proper error message.

Request

Table 28. Create Order. Request. createOrderRQ.

Name	Required	Type	Description
payloadStdAttributes	N	Object	Payload Standard Attributes object.
order	Y	Object	Order information

Table 29. payloadStdAttributes

Name	Required	Type	Description
target	Y	String	TEST or PRODUCTION.
version	Y	String	Current version is "5.000"
transactionStatusCode	Y	String	Indicates start or end of the transaction. Should be "START".
retransmissionIndicatorInd	Y	Boolean	False for the first request for an order. True is the order is retransmitted
transactionIdentifier	Y	String	Random unique string to identify the transaction for the client

Table 30. Order

Name	Required	Type	Description
offer	Y	Array	Array of offers. Each offer is an object from GET/POST offers response. See [Offers] for more details. The only difference is that dateTimeSpan must be outside of roomStay. (see highlight below)
primaryTraveler	Y	Object	Name and contacts of the primary traveler.
payment	Y	Array	Array of payment options. Multiple options can be specified.

Table 31. primaryTraveler

Name	Required	Type	Description
personName	Y	Object	Specifies the surname and given name. Given name is an array, which enables complex names.
Address	Y	Object	Specifies the address city, state/prov, country, and postal code.
Telephone	Y	Array	Array of telephone numbers with their types (work/home/mobile, etc.)
Email	Y	Array	Array of email addresses with their types (work/home etc.)

Table 32. payment

Name	Required	Type	Description
formOfPayment	Y	Array	An array of FormOfPayment Objects that can be of several different types. Typically would be either FormOfPayment_PaymentCard or FormOfPayment_DirectBill

Table 33. formOfPaymentBase Type. Parent for paymentCard, directBill and others

Name	Required	Type	Description
guaranteeTypeCode	Y	String	Payment Guarantee type code. Includes Credit Card (CC/GCC), Direct Bill, Prepayment and others. Should be taken from the options in GET/POST offers response

Table 34. formOfPayment_PaymentCard

Name	Required	Type	Description
paymentCard	Y	Object	Credit/Debit card data

Table 35. paymentCard

Name	Required	Type	Description
cardCode	Y	String	Two letter credit card code: VI/MC/ etc.
cardHolderName	Y	String	Card holder name
cardNumber	Y	String	EncryptionTypen object that has a plaintext property to hold the card number
seriesCode	Y	String	EncryptionTyken object that has a plain text property to hold the series code
expireDate	Y	MMYY	4 digits, defining the number of the month (01-12) and year (YY) – the expiration date.

Table 36. formOfPayment_DirectBill

Name	Required	Type	Description
directBill	Y	Object	Direct Bill account information

Table 37. directBill

Name	Required	Type	Description
directBill_ID	Y	String	The bill identifier
billingAccount	Y	String	Billing Account number

Example Request

```
{
    "createOrderRQ": [
      {
        "order": {
          "offer": [
            {
              "product": [
                {
                  "@type": "ProductHospitality",
                  "roomStay": {
                    "roomType": {
                      "code": {
                        "value": "KXTY"
                      },
                      "description": {
                        "text": [
                          {
                            "value": "1 KING BED STUDY WITH SOFABED NONSMOKING"
                          },
                          {
                            "value": "HDTV/FREE WI-FI/HOT BREAKFAST INCLUDED"
                          },
                          {
                            "value": "WORK AREA"
                          }
                        ]
                      }
                    },
                    "ratePlan": {
                      "description": {
                        "text": [
                          {
                            "value": "BEST AVAILABLE RATE"
                          }
                        ]
```

```json
      },
      "ratePlanCode": {
        "value": "LHH12C",
        "ratePlanCategory": "corporate",
        "promotionVendorCode": []
      },
      "ratePlanType": {
        "value": "CORPORATE"
      },
      "ratePlanName": "BEST AVAILABLE RATE",
      "ratePlanIndicator": "Open"
    }
  },
  "guestCount": [
    {
      "value": 1,
      "ageQualifyingCode": "ADULT"
    }
  ],
  "numberOfRooms": 9,
  "dateTimeSpan": {
    "timeSpan": {
      "start": "2023-07-15 00:00 AM UTC",
      "end": "2023-07-16 00:00 AM UTC"
    },
    "duration": []
  }
}
],
"facilityIdentifier": {
  "@type": "FacilityHotel",
  "facilityKey": {
    "@type": "FacilityKeyHotel",
    "chainCode": "EH",
    "brandCode": "HH",
    "extensionPoint": {
      "any": [
        {
          "facilityName": "Boston-Braintree, MA"
        }
      ]
    },
    "facilityCode": "BOSBT"
  }
},
"extensionPoint": {
```

```
                "any": [
                  {
                    "clientId": "HH-456"
                  }
                ]
              }
            }
          ],
          "primaryTraveler": {
            "personName": {
              "given": [
                "Ron"
              ],
              "surname": "Johnson"
            },
            "address": [
              {
                "addressLine": [
                  "48 BEECHWOOD DR."
                ],
                "city": "N. ANDOVER",
                "stateProv": {
                  "value": "MA"
                },
                "country": {
                  "value": "US"
                },
                "postalCode": "01845",
                "extensionPointDetail": {
                  "any": [
                    {
                      "addressType": "travel",
                      "company": "LINKS GOLF TRAVEL"
                    }
                  ]
                }
              },
              {
                "addressLine": [
                  "755 Crossover Lane"
                ],
                "city": "Memphis",
                "stateProv": {
                  "value": "TN"
                },
                "country": {
```

```
              "value": "US"
            },
            "postalCode": "28301",
            "extensionPointDetail": {
              "any": [
                {
                  "addressType": "business",
                  "company": "HILTON"
                }
              ]
            }
          }
        ],
        "telephone": [
          {
            "phoneNumber": "9012345677",
            "remark": "business"
          }
        ],
        "email": [
          {
            "address": "ronswanson@gmail.com",
            "remark": "home"
          }
        ]
      },
      "payment": [
        {
          "formOfPayment": {
            "paymentCard": {
              "cardCode": "VI",
              "cardHolderName": "RON JOHNSON",
              "cardNumber": {
                "plainText": "4111111111111111"
              },
              "seriesCode": {
                "plainText": "123"
              },
              "expireDate": "1224"
            },
            "guaranteeTypeCode": {
              "value": "CREDIT_CARD"
            }
          }
        }
      ]
```

```
                }
            }
        ]
    }
```

Response

The response will contain a CreateOrder_RS message in the JSON format. The response contains a reservation object, which includes the list of Orders with ConfirmationId and optionally ReservationID, and pricing information.

Table 38. createOrder. Response. createOrder_RS

Name	Description
payloadStdAttributes	Payload Standard Attributes object. See [Table 29. payloadStdAttributes] for more details.
result	Errors, warning and request status message.
order	The order will contain an array of offers that include pricing and room information. Full copy of the Order objects from the request plus Confirmation and optional Reservation identifiers.

Table 39. Confirmation and Reservation identifiers

Name	Description

confirmationID	The primary identifier of successful booking. This field is always present if the booking succeeded.
	`        "confirmationID": {`
	`         "value": "6948984648"`
	`        }`

reservationID	Some chains also return reservationID, which is required for order cancellation. This identifier is returned in ExtensionPoint object:
	`  "extensionPoint": {`
	`    "any": [`
	`      {`
	`        "gnrNumber": "62599742"`
	`      }`
	`    ]`
	`  }`

Table 40. Offer. Is included in the Order object. Full copy of the object from the request

Name	Description
totalPrice	Contains the order's total pricing information and can contain product price information and taxes
termsAndConditions	Cancellation and Guarantee Policies for the stay
product	The Product_Hospitality object contains the room stay, guest counts, and the date and time span for the stay.

Table 41. totalPrice

Name	Description
total	The total cost of the entire stay
productPrice	The productPrice_Hospitality object contains the list of room rates and can contain tax information
taxes	List any taxes that might be included in the total price

Table 42. productPrice_Hospitality

Name	Description
roomRate[]	The array of room rates that make the complete room stay up.
amount	The amount contains a value that is the one day stay price with tax
taxes	List any taxes that might be included in the total price

Table 43. Taxes

Name	Description
total	Contains the sum of all taxes expressed as a decimal value, in the property's currency.
tax	Can contain the list of all the individual taxes

Table 44. termsAndConditions

Name	Description
cancelPenalty	Lists any policies for canceling the stay
guaranteePolicy	Lists any guarantees that apply to the stay

Table 45. cancelPenalty

Name	Description
deadline	An absolute or relative deadline for the cancellation if available
amountPercent	The % of the cancel penalty, from the total price
description	A textual description of the cancel policy

Table 46. guaranteePolicy

Name	Description
type	Defines the guarantee to be applied to the reservation
guaranteePolicyType	Defines the policy applied to the booking restrictions
deadline	An absolute or relative deadline if available
comment	Textual comments
description	Textual description of the policy
grraranteeAccepted	Describes the forms of guarantee that are accepted
depositPolicy	Describes any policies for a deposit requirements

Table 47. product_Hospitality

Name	Description
roomStay	Room type and Rate plan
dateTimeSpan	The arrival and departure dates for the stay

Table 48. roomStay

Name	Description
roomType	Chain specific room type code and description
ratePlan	Chain specific rate plan code and description. Determines the cost of the room.

Example Response

```json
{
    "createOrderRS": [
        {
            "payloadStdAttributes": {
                "timeStamp": "2023-06-06 17:00 PM UTC",
                "targetName": "Stage",
                "version": 5,
                "transactionIdentifier": "d82693d7-c9ad-4ec9-b960-c3f001096ac3",
                "transactionStatusCode": "END"
            },
            "result": {
                "errors": [],
                "warnings": [],
                "status": {
                    "value": "COMPLETE"
                }
            },
            "order": {
                "offer": [
                    {
                        "product": [
                            {
                                "@type": "ProductHospitality",
                                "roomStay": {
                                    "roomType": {
                                        "code": {
                                            "value": "KXTY"
                                        },
                                        "description": {
                                            "text": [
                                                {
                                                    "value": "1KING STUDY SOFABED NOSMOK"
                                                }
                                            ]
                                        }
                                    },
                                    "ratePlan": {
                                        "ratePlanCode": {
                                            "value": "LHH12C",
                                            "promotionVendorCode": []
                                        },
                                        "ratePlanName": "FIT CC 12"
                                    },
                                    "dateTimeSpan": {
```

```
          "timeSpan": {
            "start": "2023-07-15 00:00 AM UTC",
            "end": "2023-07-16 00:00 AM UTC"
          },
          "duration": []
        }
      },
      "guestCount": [
        {
          "value": 1,
          "ageQualifyingCode": "ADULT"
        },
        {
          "value": 0,
          "ageQualifyingCode": "CHILD"
        }
      ],
      "numberOfRooms": 1
    }
  ],
  "totalPrice": {
    "total": {
      "value": 213.3,
      "currencyCode": "USD"
    },
    "taxes": {
      "total": {
        "value": 22.34,
        "currencyCode": "USD"
      }
    },
    "productPrice": [
      {
        "@type": "ProductPriceHospitality",
        "taxes": {
          "tax": [
            {
              "amount": {
                "total": {
                  "value": 11.7,
                  "currencyCode": "USD"
                },
                "chargeFrequency": {
                  "value": "PER_ROOM_PER_NIGHT"
                },
                "description": "percent"
```

```
              }
            }
          ]
        },
        "roomRate": [
          {
            "rate": {
              "value": 190.96,
              "currencyCode": "USD"
            },
            "effectiveDate": "2023-07-15 00:00 AM UTC",
            "bookingCode": "KXTY"
          }
        ]
      }
    ]
  },
  "termsAndConditions": [
    {
      "cancelPenalties": [
        {
          "deadlineAbsoluteDate": {
            "absoluteDateTime": "2023-07-15 00:00 AM UTC"
          },
          "description": [
            {
              "text": [
                {
                  "value": "24 HR CANCEL REQUIRED"
                }
              ]
            }
          ],
          "policyId": "24H"
        }
      ],
      "guaranteePolicy": {
        "comment": [
          {
            "text": [
              {
                "value": "GUARANTEED BY CREDIT CARD"
              }
            ]
          }
        ],
```

```
        "description": [
          {
            "text": [
              {
                "value": "Hold for Arrival"
              }
            ]
          }
        ],
        "code": "GTD"
      }
    }
  ],
  "facilityIdentifier": {
    "@type": "FacilityHotel",
    "facilityKey": {
      "@type": "FacilityKeyHotel",
      "chainCode": "EH",
      "facilityCode": "BOSBT"
    }
  }
}
        }
      ],
      "primaryTraveler": {
        "personName": {
          "prefix": [],
          "given": [
            "Ron"
          ],
          "middle": [],
          "surname": "Johnson",
          "suffix": [],
          "title": []
        },
        "address": [
          {
            "addressLine": [
              "755 Crossover Lane"
            ],
            "bldgRoom": [],
            "city": "Memphis",
            "stateProv": {
              "value": "TN"
            },
            "country": {
              "value": "US"
```

```
              },
              "postalCode": "28301",
              "extensionPointDetail": {
                "any": [
                  {
                    "addressType": "business",
                    "company": "HILTON"
                  }
                ]
              }
            }
          ],
          "telephone": [
            {
              "phoneNumber": "6172406300",
              "remark": "travel"
            },
            {
              "phoneNumber": "9012345677",
              "remark": "business"
            },
            {
              "phoneNumber": "6175075037",
              "remark": "fax"
            }
          ],
          "email": [
            {
              "address": "ronswanson@gmail.com",
              "remark": "home"
            }
          ]
        },
        "payment": [
          {
            "formOfPayment": {
              "paymentCard": {
                "cardCode": "VS",
                "cardNumber": {
                  "plainText": "80416312696311111"
                },
                "expireDate": "1224"
              },
              "guaranteeTypeCode": {
                "value": "CC"
              }
```

```
                }
              }
            ],
            "confirmationID": {
              "value": "91763289"
            },
            "extensionPoint": {
              "any": [
                {
                  "gnrNumber": "66744006"
                }
              ]
            },
            "objID": "5e2cf230-8526-4ab1-9289-65e2e8d520b5",
            "comments": []
          }
        }
      ]
    }
```

Retrieve Order

GET	/api/v2/hotel/order

The GET command to the order endpoint is used to retrieve the information about the order identified by the parameters.

Request

Table 49. Get Order. Request

Name	Required	Type	Description
chainCode	Y	String	Chain code – should be selected from the pre-defined list of supported chains (look at the swagger file for the exhaustive list of supported chains)
confirmationId	Y	Long Integer	The identifier of the order in the chain.
Surname	Y	String	The last name of the primary traveler.

Example Request

`/api/v2/hotel/order?chainCode=EH&confirmationId=98104745&surname=Johnson`

Response

The response will contain the CreateOrder_RS message in the JSON format. The response contains a reservation object, which includes the list of Orders with ConfirmationId and optionally ReservationID, and pricing information. For more information please refer to the Create Order Response.

Change Order

PUT	/api/v2/hotel/order

The PUT command to the order endpoint is used to change an existing order. The request and response are identical to the Best Available Rate, but the request must have the confirmationID.

Cancel Order

DELETE	/api/v2/hotel/order

DELETE orders request invokes order cancellation. If the order is not cancellable, an appropriate error message will return. In the case of success, the orderCancellationID will be returned in the response.

DELETE orders can cancel one or more orders. deleteOrderRQ is an array that can contain multiple objects of the same structure.

Request

Table 50. Create Order. Request. deleteOrderRQ.

Name	Required	Type	Description
payloadStdAttributes	Y	Object	Payload Standard Attributes object.
order	Y	Object	Order information

Table 51. payloadStdAttributes

Name	Required	Type	Description
target	Y	String	TEST or PRODUCTION.
version	Y	String	Current version is "5.000"
ptimaryLangID	Y	String	EN is the only supported yet
echoToken	N	String	Random string
timeStamp	Y	TimeStamp	Current timestamp YYYY-MM-DDTHH:mm:SS
transactionStatusCode	Y	String	Indicates start or end of the transaction. Should be "START".
retransmissionIndicatorInd	Y	Boolean	False for the first request for an order. True is the order is retransmitted
transactionIdentifier	Y	String	Random unique string to identify the transaction for the client

Table 52. order

Name	Required	Type	Description
offer	Y	Array	Array of offers to be canceled. Some chains support partial Order cancellation, thus if the order includes several rooms (offers), then a subset of those can be in the request. **Note:** at this point LPA does not support partial order cancellation even if the hotelChain does.
primaryTraveler	Y	Object	Name and contacts of the primary traveler.
confirmationID	Y	Object	Confirmation ID object
extensionPoint	Y	Object	Used to provide the reservation ID for some chains. If CREATE Order returned reservationID, then DELETE Order requires this value in the extensionPoint. Otherwise, the reservationID is not needed.

Table 53. offer

Name	Required	Type	Description
facilityIdentifier	Y	Object	Contains specific information to identify a facility

Table 54. facilityIdentifier

Name	Required	Type	Description
@type	Y	Constant	"FacilityHotel"
facilityKey	Y	object	The unique identifier of the facility

Table 55. facilityKey

Name	Required	Type	Description
@type	Y	Constant	"FacilityKeyHotel"
facilityCode	Y	String	The identifier of a particular property/facility/hotel. Unique within its chain. Should be taken from the response of one of the search endpoints.
chainCode	Y	String	Two letter code of the hotel chains. Leave empty to search all chains.

Table 56. primaryTraveler

Name	Required	Type	Description
personName	Y	Object	Contains the name of the primary traveler
surname	Y	String	The last name of the primary traveler

Table 57. confirmationID

Name	Required	Type	Description
Value	Y	String	The confirmationID of the order. Was retrieved from CREATE Order response

Table 58. extensionPoint

Name	Required	Type	Description
any	Y	Array	Array of any object
gnrNumber	Y	Long Int	reservationID. If the reservationID was not returned in the CREATE Order response, then the entire ExtensionPoint object is not needed. Otherwise, the reservationID is required.

Example Request

```
{
  "deleteOrderRQ": [
    {
      "payloadStdAttributes": {
        "target": "TEST",
        "version": 5.0,
        "primaryLangID": "EN",
        "echoToken": "whatever",
        "timeStamp": "2022-01-03T10:00:00",
        "transactionStatusCode": "START",
        "transactionIdentifier": "randomString1234"
      },
      "order": {
        "offer": [
          {
            "product": [
              {
                "@type": "ProductHospitality",
                "roomStay": {
                  "roomType": {
                    "code": {
```

```
                "value": "KXTY"
              },
              "description": {
                "text": [
                  {
                    "value": "1KING STUDY SOFABED NOSMOK"
                  }
                ]
              }
            },
            "ratePlan": {
              "ratePlanCode": {
                "value": "LHH12C",
                "promotionVendorCode": []
              },
              "ratePlanName": "FIT CC 12"
            }
          },
          "guestCount": [
            {
              "value": 1,
              "ageQualifyingCode": "ADULT"
            },
            {
              "value": 0,
              "ageQualifyingCode": "CHILD"
            }
          ],
          "numberOfRooms": 1,
          "dateTimeSpan": {
            "timeSpan": {
              "start": "2023-07-15 00:00 AM UTC",
              "end": "2023-07-16 00:00 AM UTC"
            },
            "duration": []
          }
        }
      ],
      "totalPrice": {
        "total": {
          "value": 213.3,
          "currencyCode": "USD"
        },
        "taxes": {
          "total": {
            "value": 22.34,
```

```json
          "currencyCode": "USD"
        }
      },
      "productPrice": [
        {
          "@type": "ProductPriceHospitality",
          "taxes": {
            "tax": [
              {
                "amount": {
                  "total": {
                    "value": 11.7,
                    "currencyCode": "USD"
                  },
                  "chargeFrequency": {
                    "value": "PER_ROOM_PER_NIGHT"
                  },
                  "description": "percent"
                }
              }
            ]
          },
          "roomRate": [
            {
              "rate": {
                "value": 190.96,
                "currencyCode": "USD"
              },
              "effectiveDate": "2023-07-15 00:00 AM UTC",
              "bookingCode": "KXTY"
            }
          ]
        }
      ]
    },
    "termsAndConditions": [
      {
        "cancelPenalties": [
          {
            "deadlineAbsoluteDate": {
              "absoluteDateTime": "2023-07-15 00:00 AM UTC"
            },
            "description": [
              {
                "text": [
                  {
```

```json
                              "value": "24 HR CANCEL REQUIRED"
                            }
                          ]
                        }
                      ],
                      "policyId": "24H"
                    }
                  ],
                  "guaranteePolicy": {
                    "comment": [
                      {
                        "text": [
                          {
                            "value": "GUARANTEED BY CREDIT CARD"
                          }
                        ]
                      }
                    ],
                    "description": [
                      {
                        "text": [
                          {
                            "value": "Hold for Arrival"
                          }
                        ]
                      }
                    ],
                    "code": "GTD"
                  }
                }
              ],
              "facilityIdentifier": {
                "@type": "FacilityHotel",
                "facilityKey": {
                  "@type": "FacilityKeyHotel",
                  "chainCode": "EH",
                  "facilityCode": "BOSBT"
                }
              },
              "extensionPoint": {
                "any": [
                  {
                    "clientId": "HH-456"
                  }
                ]
              }
```

```
              }
            ],
            "primaryTraveler": {
              "personName": {
                "prefix": [],
                "given": [
                  "Ron"
                ],
                "middle": [],
                "surname": "Johnson",
                "suffix": [],
                "title": []
              },
              "address": [
                {
                  "addressLine": [
                    "755 Crossover Lane"
                  ],
                  "bldgRoom": [],
                  "city": "Memphis",
                  "stateProv": {
                    "value": "TN"
                  },
                  "country": {
                    "value": "US"
                  },
                  "postalCode": "28301",
                  "extensionPointDetail": {
                    "any": [
                      {
                        "addressType": "business",
                        "company": "HILTON"
                      }
                    ]
                  }
                }
              ],
              "telephone": [
                {
                  "phoneNumber": "6172406300",
                  "remark": "travel"
                },
                {
                  "phoneNumber": "9012345677",
                  "remark": "business"
                },
```

```json
          {
            "phoneNumber": "6175075037",
            "remark": "fax"
          }
        ],
        "email": [
          {
            "address": "ronswanson@gmail.com",
            "remark": "home"
          }
        ]
      },
      "payment": [
        {
          "formOfPayment": {
            "paymentCard": {
              "cardCode": "VS",
              "cardNumber": {
                "plainText": "4111111111111111"
              },
              "seriesCode": {
                "plainText": "123"
              },
              "expireDate": "1224"
            },
            "guaranteeTypeCode": {
              "value": "CC"
            }
          }
        }
      ],
      "confirmationID": {
        "value": "91763289"
      },
      "extensionPoint": {
        "any": [
          {
            "gnrNumber": "66744006"
          }
        ]
      },
      "objID": "5e2cf230-8526-4ab1-9289-65e2e8d520b5",
      "comments": []
    }
  }
]
```

```
  }
```

Response

The response will contain deleteOrder_RS message in the JSON format. The response contains an orderID with confirmationID and cancellationID. The latter is important in case we need to prove the order had been canceled.

If the DELETE order call was executed for more than one order, deleteOrder_RS will contain multiple objects for each order canceled.

Table 59. deleteOrderRS

Name	Description
order	Defines the order (by confirmationID) and the ID of the cancellation (cancellationID).

Table 60. DeleteOrders. order

Name	Description

confirmationID	The primary identifier of successful booking. This field is always present if the booking succeeded.
	`"confirmationID": {`
	` "value": "6948984648"`
	`}`

cancellationID	The ID of the cancellation record. May be needed to confirm that the order had been canceled: `"cancellationID": {`
	` "value": "21525430"`
	`}`

Example Response

```
{
  "deleteOrderRS": [
    {
      "order": {
        "confirmationID": {
          "value": "91763289"
        },
        "cancellationID": {
          "value": "24208230"
        }
      }
    }
  ]
}
```