

Haoqiao Hotel API Development Guide

V1.2.4**Revision History**

Date	Revision	Description	Author
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2016-06-15	V1.0.1	Fix authentication bug	WUZHENYU
2016-07-21	V1.1.0	Add Hotel Price List API	WU ZHENYU
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2016-08-19	V1.2.0	Change the structure of RateInfo	WU ZHENYU
2016-08-21	V1.2.1	Remove Contact Info from Booking	WU ZHENYU
2016-08-25	V1.2.2	Add ConfirmCode for Booking	WU ZHENYU
2016-12-02	V1.2.3	Add parameters for room_price and fix bug	WUZHENYU
2017-08-15	V1.2.4	Remains required and CreditCard on booking	WUZHENYU
2018-02-09	V1.2.5	Change the description of RateInfo	WUCHONG

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1. Introduction

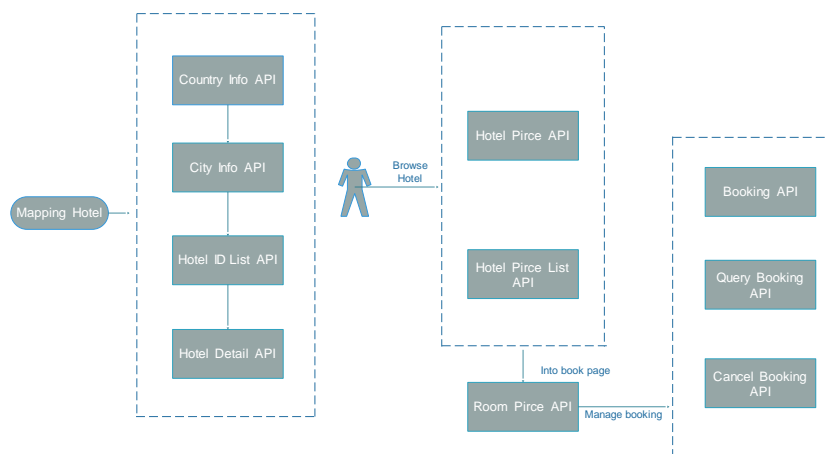
Haoqiao hotel API is an XML based interface which provides a standard way to access hotel vendors' systems. This development guide provides the interface definition, corresponding protocols, and implementation guidance. Hotel vendors are expected to use this guide to implement interfaces.

2. Glossary

Customer	A person who wants to book a hotel room online.
Vendor	Provider of hotel room rate/availability to customers and receives reservation orders from customers.
Static APIs	APIs implemented by vendor to provide country, city and hotel information in XML body.
Price APIs	APIs implemented by vendor to provide hotel price and room price information in XML body.
Order APIs	APIs implemented by vendor to support order booking, order query and order cancel.
Timestamp	The seconds since “1970-01-01 00:00:00” GMT.

3. General Guidelines

3.1 Workflow Diagram



3.2 Interface Overview

There are three kinds of APIs vendor need to implement: static info APIs, pricing APIs and booking APIs. Country Info API, City Info API and Hotel Static Info API are static info APIs. Hotel Price API, Room Price API and Hotel Price List API are pricing APIs. Booking API, Cancel Booking API and Query Booking Details API are booking APIs.

Haoqiao will call static info APIs periodically to do hotel mapping. Usually Haoqiao will run a complete update on vendors hotels every 1~2 weeks. Vendor should assign a global unique and stable ID to each hotel, which will be used in all APIs.

Vendor should implement the interface in the form of HTTP web service. Request and response of each API are XML based and UTF-8 encoded. Please make sure there is no BOM header in response while it must include XML header: `<?xml version="1.0" encoding="UTF-8"?>`. The web service implemented should support HTTP gzip compression since Haoqiao will send HTTP request with header: "Accept-Encoding: gzip".

3.3 Common Request Frame

Haoqiao will use HTTP POST method in all requests. The authentication section is necessary for each request. A common XML body example is as the following:

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<HotelRequest SessionID="[session id]">
  <OrgID>[organization id]</OrgID>
  <Version>[service version number]</Version>
  <AuthKey>[ authentication hash key]</AuthKey>
  <ReqType>[request type]</ReqType>
  <!--request params-->
  .....
</HotelRequest>
```

Field Name	Type	Required	Description
SessionID	string	Yes	A unique value for each request message to distinguish search sessions.
OrgID	string	Yes	Vendor's organization ID assigned by Haoqiao.
Version	string	Yes	Version number of Haoqiao API used.
AuthKey	string	Yes	A hash key which Vendor should use to authenticate whether the owner of request is Haoqiao. Haoqiao will assign a private key to Vendor and generate AuthKey by means of $sha1(OrgID+SessionID+Version+PrivateKey)$, where '+' means string catenation. When receiving a request, vendor can compute it in the same way to verify the requestor identity.
ReqType	string	Yes	Request type such as "country_list", which is defined in API details sections below.

3.4 Common Response Frame

```
<?xml version="1.0" encoding="utf-8"?>
<HotelResponse>
  <Msg>success</Msg>
  <ResponseType>citylist</ResponseType>
  <Code>1</Code>
  <SubCode>10000</SubCode>
  .....
</HotelResponse>
```

Field Name	Type	Required	Description
ResponseType	string	Yes	Same as the ReqType in request message.
Code	integer	Yes	Result code. Please refer to the appendix.
SubCode	integer	Yes	Result sub code. Please refer to the appendix.
Msg	string	Yes	Detailed result message. Please refer to the appendix.

3.5 Error Response Example

```
<?xml version='1.0' encoding='utf-8'?>
<HotelResponse>
  <ResponseType>cancel</ResponseType>
  <Code>4</Code>
  <SubCode>40011</SubCode>
  <Msg>booking not confirm</Msg>
</HotelResponse>
```

4. Interface Detail

4.1 Country Info API

4.1.1 Interface description

It's provided by vendor.

Requirements: throughput > 1 QPS and response time < 3 seconds.

Haoqiao will request country information via this API. Vendor should assign a global unique and stable country ID to each country. A country must have at least one full name in English or in Chinese. Please do not use abbreviations or codes.

4.1.2 Request

```
<?xml version="1.0" encoding="utf-8"?>
<HotelRequest SessionID="a698de97492f6703bb4a60403387046d">
  <OrgID>128732</OrgID>
  <Version>1.2.0</Version>
  <AuthKey>75d3fc3c7760403b212248e3172174e693150aaf</AuthKey>
  <ReqType>country_list</ReqType>
</HotelRequest>
```

Field Name	Type	Required	Description
ReqType	string	Yes	Fixed string: "country_list".

4.1.3 Response

```
<?xml version="1.0" encoding="utf-8"?>
<HotelResponse>
```

```
<Msg>success</Msg>
<ResponseType>country_list</ResponseType>
<Code>1</Code>
<SubCode>10000</SubCode>
<CountryList>
  <Country>
    <NameChn>白俄罗斯</NameChn>
    <NameEng>Belarus</NameEng>
    <CountryID>151</CountryID>
  </Country>
  <Country>
    .....
  </Country>
</CountryList>
</HotelResponse>
```

Field Name	Type	Required	Description
CountryList	item	Yes	List of country info.
CountryList/Country	list	Yes	Country info.
Country/NameChn	string	Yes, if NameEng not present	Chinese name of the country.
Country/NameEng	string	Yes, if NameChn not present	English name of the country.
Country/CountryID	string	Yes	Global unique country ID.

4.2 City Info API

4.2.1 Interface description

It's provided by vendor.

Requirements: throughput > 1 QPS and response time < 3 seconds.

Haoqiao will request city information via this API. Vendor should assign a global unique and stable city ID to each city. A city must have at least one full name in English or in Chinese. Please do not use abbreviations or codes.

4.2.2 Request

```
<?xml version="1.0" encoding="utf-8"?>
<HotelRequest SessionID="6c06fda0fc41f9916893ded712302855">
  <OrgID>1</OrgID>
  <Version>1.2.0</Version>
  <AuthKey>bbdd9cbfb695cbe08acd1e2bf7fb41abb45f17a8</AuthKey>
```



```
<ReqType>city_list</ReqType>
<CountryID>150</CountryID>
</HotelRequest>
```

Field Name	Type	Required	Description
ReqType	string	Yes	Fixed string: "city_list".
CountryID	string	Yes	Global unique country ID.

4.2.3 Response

```
<?xml version="1.0" encoding="utf-8"?>
<HotelResponse>
  <Msg>success</Msg>
  <ResponseType>city_list</ResponseType>
  <Code>1</Code>
  <SubCode>10000</SubCode>
  <CountryID>150</CountryID>
  <CityList>
    <City>
      <CityID>110</CityID>
      <NameChn>象島</NameChn>
      <NameEng>Koh Chang</NameEng>
      <ProvinceChn>达叻府</ProvinceChn>
      <ProvinceEng></ProvinceEng>
      <Longitude>102.32537</Longitude>
      <Latitude>12.05438</Latitude>
      <TimeZone>+7</TimeZone>
      <Alias></Alias>
    </City>
    <City>
      <CityID>111</CityID>
      <NameChn>华欣</NameChn>
      <NameEng>Hua Hin</NameEng>
      <ProvinceChn>巴蜀府</ProvinceChn>
      <ProvinceEng></ProvinceEng>
      <Longitude>99.94</Longitude>
      <Latitude>12.58</Latitude>
      <TimeZone>+7</TimeZone>
      <Alias></Alias>
    </City>
  </CityList>
</HotelResponse>
```

Field Name	Type	Required	Description
------------	------	----------	-------------

CountryID	string	Yes	Global unique country ID.
CityList	element	Yes	List of city info.
CityList/City	element	Yes	City info.
City/CityID	string	Yes	Global unique city ID.
City/NameChn	string	Yes, if NameEng not present	Chinese name of the city.
City/NameEng	string	Yes, if NameChn not present	English name of the city.
City/ProvinceChn	string	Yes,if there are more than one city with same name and ProvinceEng not present	City Province or State name in Chinese.
City/ProvinceEng	string	Yes,if there are more than one city with same name and ProvinceChn not present	City Province or State name in English.
City/Longitude	double	No	City longitude.
City/Latitude	double	No	City latitude.
City/TimeZone	string	No	City Time Zone, e.g. "-1" means GMT-1.
City/Alias	string	No	City Alias.

4.3 Hotel ID List API

4.3.1 Interface description

It's provided by vendor.

Requirements: throughput > 1 QPS and response time < 3 seconds.

Haoqiao will request hotel list via this API. Vendor should assign a global unique and stable hotel ID to each hotel. The hotel ID should not be reused if the hotel is taken off shelves.

Vendor should only return the hotels in service since Haoqiao will override the hotel list of the city when updating mapping. Returning hotels that no longer serving will waste searching requests to Vendors.

4.3.2 Request

```
<?xml version="1.0" encoding="utf-8"?>
<HotelRequest SessionID="415ec4d50c96c2228c0fd92e96f3a056">
  <OrgID>1</OrgID>
  <Version>1.2.0</Version>
  <AuthKey>24f8dbbb51e59ecc476ee89e0cce4fd2cecb0c79</AuthKey>
  <ReqType>hotel_list</ReqType>
  <CityID>1</CityID>
</HotelRequest>
```

Field Name	Type	Required	Description
------------	------	----------	-------------

ReqType	string	Yes	Fixed string: "hotel_list".
CityID	string	Yes	Global unique city ID.

4.3.3 Response

```
<?xml version="1.0" encoding="utf-8"?>
<HotelResponse>
  <Msg>success</Msg>
  <ResponseType>hotel_list</ResponseType>
  <Code>1</Code>
  <SubCode>10000</SubCode>
  <CityID>1</CityID>
  <HotelList>
    <HotelID>122</HotelID>
    <HotelID>133</HotelID>
  </HotelList>
</HotelResponse>
```

Field Name	Type	Required	Description
HotelList	item	Yes	Item label.
HotelList/HotelID	string	Yes	Global unique hotel ID.

4.4 Hotel Detail API

4.4.1 Interface description

It's provided by vendor.

Requirements: throughput > 1 QPS and response time < 5 seconds.

Haoqiao will update all hotel information via this API to do hotel mapping. The hotel details such as introduction should be in English or Chinese. Since the hotel detail response could be in big size, the bandwidth should be considered when building the service.

4.4.2 Request

```
<?xml version="1.0" encoding="utf-8"?>
<HotelRequest SessionID="70f1d387b16409559b163c269da5c67a">
  <OrgID>1</OrgID>
  <Version>1.2.0</Version>
  <AuthKey>62caf1ccd8fd7d38ae9f33f4737690f3c6ef8cfc</AuthKey>
  <ReqType>hotel</ReqType>
  <CityID>1</CityID>
```

```
<HotelID>120</HotelID>
</HotelRequest>
```

Field Name	Type	Required	Description
ReqType	string	Yes	Fixed string: "hotel".
CityID	string	Yes	Global unique city ID.
HotelID	string	Yes	Global unique hotel ID.

4.4.3 Response

```
<?xml version="1.0" encoding="utf-8"?>
<HotelResponse>
  <Msg>success</Msg>
  <ResponseType>hotel</ResponseType>
  <Code>1</Code>
  <SubCode>10000</SubCode>
  <CityID>1</CityID>
  <HotelDetail>
    <HotelID>120</HotelID>
    <Star>3</Star>
    <Introduction>Holiday Inn Express Phuket Patong Beach Central 酒店位于芭东海滩对面。
  </Introduction>
    <Longitude>98.2976227999</Longitude>
    <Latitude>7.89999880196</Latitude>
    <NameChn>普吉岛巴东海滩中央智选假日酒店</NameChn>
    <NameEng>Holiday Inn Express Phuket Patong Beach Central</NameEng>
    <AddressChn>芭东海滩, 泰国</AddressChn>
    <AddressEng></AddressEng>
    <Remarks></Remarks>
    <Phone>66 76 372888</Phone>
    <ZipCode>999019</ZipCode>
    <FaxCode>66 76 372888</FaxCode>
    <Email>info.phuex@ihg.com</Email>
    <HotelUrl>http://www.patongholiday.com</HotelUrl>
    <CheckIn>2:00 PM</CheckIn>
    <CheckOut>12:00 AM</CheckOut>
    <RoomNum>277</RoomNum>
    <Brand></Brand>
    <StartDate>2010-05-01</StartDate>
    <RepairDate>2013-03-01</RepairDate>
    <Facilities>
      <Facility>
        <NameChn>吸烟区</NameChn>
        <NameEng>smoking area</NameEng>
```

```

        <FacDesc>有</FacDesc>
    </Facility>
    <Facility>
        <NameChn>健身中心</NameChn>
        <NameEng>Fitness Center</NameEng>
        <FacDesc>有</FacDesc>
    </Facility>
</Facilities>
<ImageList>
    <Image>
        <ImgTitle></ImgTitle>
        <ImgURL>http://t.cn/RtenTyb</ImgURL>
    </Image>
    <Image>
        <ImgTitle></ImgTitle>
        <ImgURL>http://t.cn/Rten8UU</ImgURL>
    </Image>
</ImageList>
</HotelDetail>
</HotelResponse>

```

Field Name	Type	Required	Description
HotelDetail	element	Yes	
HotelDetail/HotelID	string	Yes	Global unique hotel ID.
HotelDetail/CityID	string	No	Global unique city ID.
HotelDetail/Star	integer	Yes	Hotel star-rated, 0 if no rated or no data.
HotelDetail/Introduction	string	Yes	Hotel introduction.
HotelDetail/Longitude	double	Yes	Hotel longitude.
HotelDetail/Latitude	double	Yes	Hotel latitude.
HotelDetail/NameChn	string	Yes, if NameEng not present	Hotel name in Chinese.
HotelDetail/NameEng	string	Yes, if NameChn not present	Hotel name in English.
HotelDetail/AddressChn	string	Yes, if AddressEng not present	Hotel address in Chinese.
HotelDetail/AddressEng	string	Yes, if AddressChn not present	Hotel address in English.
HotelDetail/Remarks	string	No	Extra remark info.
HotelDetail/Phone	string	No	Hotel telephone.
HotelDetail/ZipCode	string	No	Hotel zip code.
HotelDetail/FaxCode	string	No	Hotel fax number.
HotelDetail/Email	string	No	Hotel E-mail address.
HotelDetail/HotelUrl	string	No	Hotel website.
HotelDetail/CheckIn	string	No	Check-in time in format: "12:00 AM".
HotelDetail/CheckOut	string	No	Check-out time in format: "2:00 PM".
HotelDetail/RoomNum	integer	No	Total number of rooms in hotel.

HotelDetail/Brand	string	No	Hotel group and brand.
HotelDetail/StartDate	string	No	Start date of hotel, in format:"YYYY-mm-dd".
HotelDetail/RepairDate	string	No	Latest repairing/decorating date, in format:"YYYY-mm-dd".
HotelDetail/Facilities	element	Yes	List of hotel facilities.
Facilities/Facility	element	No	Hotel facility instruction.
Facility/NameChn	string	Yes, if parent present but NameEng not present	Facility name in Chinese.
Facility/NameEng	string	Yes, if parent present but NameChn not present	Facility name in English.
Facility/FacDesc	string	No	Facility description.
HotelDetail/ImageList	element	Yes, if parent present	Hotel image list.
ImageList/Image	element	No	Hotel image info.
Image/ImgTitle	string	No	Image title.
Image/ImgURL	string	Yes, if parent present	Image URL.

4.5 Hotel Price API

4.5.1 Interface description

It's provided by vendor.

Requirements: throughput > 20 QPS and response time < 5 seconds.

Haoqiao will query available rooms and prices for a specific hotel.

4.5.2 Request

```
<?xml version="1.0" encoding="utf-8"?>
<HotelRequest SessionID="a17f81061864a8fa0a491c21acc0b8de">
  <OrgID>1</OrgID>
  <Version>1.2.0</Version>
  <AuthKey>1cf767499b3fc32823c7a2f29bf64618ab1b1037</AuthKey>
  <ReqType>hotel_price</ReqType>
  <CityID>1</CityID>
  <HotelID>151</HotelID>
  <RoomCount>2</RoomCount>
  <Adult>2</Adult>
  <Children>0</Children>
  <ChildrenAge></ChildrenAge>
  <CheckInDate>2016-05-27</CheckInDate>
  <CheckOutDate>2016-05-29</CheckOutDate>
```

```

<Nationality>CN</Nationality>
<Currency>CNY</Currency>
<ConfirmType>1</ConfirmType>
<CancelFilter>1</CancelFilter>
<MinTotalAmount>1000</MinTotalAmount>
<MaxTotalAmount>1500</MaxTotalAmount>
<BoardType>2</BoardType>
</HotelRequest>

```

Field Name	Type	Required	Description
ReqType	string	Yes	Fixed string: "hotel_price".
CityID	string	Yes	Global unique city ID.
HotelID	string	Yes	Global unique hotel ID.
RoomCount	integer	Yes	Number of rooms.
Adult	integer	Yes	Number of adults per room.
Children	integer	Yes	Number of children per room.
ChildrenAge	string	Yes	Children ages, comma separated, e.g. "4,5". The count of children ages must keep consistent with <Children> element. It can be empty only when no children.
CheckInDate	string	Yes	YYYY-mm-dd.
CheckOutDate	string	Yes	YYYY-mm-dd.
Nationality	string	Yes	Customers' nationality, refer to <i>Nationality Enum</i> .
Currency	enum	Yes	Refer to <i>Currency Enum</i> .
ConfirmType	enum	Yes	Refer to <i>Confirm Type Enum</i> .
CancelFilter	integer	No	Refer to <i>Cancel Filter Enum</i> .
MinTotalAmount	float	No	Min acceptable total price.
MaxTotalAmount	float	No	Max acceptable total price.
BoardType	enum	No	Refer to <i>Board Type Enum</i> .

4.5.3 Response

```

<?xml version="1.0" encoding="utf-8"?>
<HotelResponse>
  <ResponseType>hotel_price</ResponseType>
  <Code>1</Code>
  <SubCode>10000</SubCode>
  <Msg>Success</Msg>
  <CityID>1</CityID>
  <CheckInDate>2016-05-27</CheckInDate>
  <CheckOutDate>2016-05-29</CheckOutDate>
  <Hotel>
    <HotelID>151</HotelID>

```

```
<NameChn>亚特兰大阿尔法利塔北角东美国长住酒店</NameChn>
<NameEng>Extended Stay America - Atlanta - Alpharetta-Northpoint-East</NameEng>
<RoomList>
  <Room>
    <RoomID>123</RoomID>
    <RoomNameChn>豪华大床房</RoomNameChn>
    <RoomNameEng>Delux Double Room</RoomNameEng>
    <RoomDesc>This deluxe room has a great view of ...</RoomDesc>
    <RoomSize>28 square meter</RoomSize>
    <RateInfoList>
      <RateInfo>
        <RateCode>CZTZkOGM3ZjUxYmY4OWZhNWEzZjFjOTI</RateCode>
        <Currency>CNY</Currency>
        <TotalAmount>1223.9</TotalAmount>
        <ConfirmType>1</ConfirmType>
        <NumAdults>2</NumAdults>
        <NumChildren>0</NumChildren>
        <ChildrenAgeLimit>10</ChildrenAgeLimit>
        <Internet>1</Internet>
        <Board>
          <BoardType>2</BoardType>
          <BoardDesc>Chinese Food</BoardDesc>
        </Board>
        <Bed>
          <Name>double bed</Name>
          <Desc>1.8m*2.0m</Desc>
        </Bed>
        <NightlyRates>
          <NightlyRate>
            <Date>2016-05-27</Date>
            <Rate>305.975</Rate>
          </NightlyRate>
          <NightlyRate>
            <Date>2016-05-28</Date>
            <Rate>305.975</Rate>
          </NightlyRate>
        </NightlyRates>
        <CancelPolicy>
          <FreeCancelDeadline>1464102000</FreeCancelDeadline>
          <CancelDeadline>1464102000</CancelDeadline>
          <CancelCharge>611.95</CancelCharge>
        </CancelPolicy>
        <TotalTax>120</TotalTax>
        <Remains>4</Remains>
      </RateInfo>
    </RateInfoList>
  </Room>
</RoomList>
```



```

    <Promotion>10% cutoff 3days</Promotion>
    <NumExtrabeds>0</NumExtrabeds>
    <Remarks>redecorated in August</Remarks>
    <Facilities>
        <FacDesc>PC</FacDesc>
        <FacDesc>hair drier</FacDesc>
    </Facilities>
    <ImageList>
        <Image>
            <ImgTitle></ImgTitle>
            <ImgURL>http://t.cn/RtenTyb</ImgURL>
        </Image>
        <Image>
            <ImgTitle></ImgTitle>
            <ImgURL>http://t.cn/Rten8UU</ImgURL>
        </Image>
    </ImageList>
</RateInfo>
< RateInfo>
    .....
</RateInfo>
</RateInfoList>
</Room>
<Room>
    .....
</Room>
</RoomList>
</Hotel>
</HotelResponse>

```

Field Name	Type	Required	Description
ReqType	string	Yes	Fixed string: "hotel_price".
CityID	string	Yes	Global unique city ID.
CheckInDate	string	Yes	YYYY-mm-dd.
CheckOutDate	string	Yes	YYYY-mm-dd.
Hotel	element	Yes	Item label.
Hotel/HotelID	string	Yes	Global unique hotel ID.
Hotel/NameChn	string	Yes, if NameEng not present	Hotel name in Chinese.
Hotel/NameEng	string	Yes, if NameChn not present	Hotel name in English.
Hotel/RoomList	element	Yes, if there is price info	List of rooms.
RoomList/Room	element	Yes, if parent present	Room info.

Room/RoomID	string	No	Room ID.
Room/RoomNameChn	string	Yes, if RoomNameEng not present	Room name in Chinese.
Room/RoomNameEng	string	Yes, if RoomNameChn not present	Room name in English.
Room/RoomDesc	string	No	Room description.
Room/RoomSize	string	No	Room area, e.g. 12 square meter.
Room/RateInfoList	element	Yes, if parent present	List of rate info.
RateInfoList/RateInfo	element	Yes, if parent present	One rate info.
RateInfo/RateCode	string	Yes, if parent present	Rate identification, which can be used to identify one specific room and make further room price query and booking.
RateInfo/Currency	enum	Yes, if parent present	Refer to <i>Currency Enum</i> .
RateInfo/TotalAmount	float	Yes, if parent present	Total price with taxes included, which should be equal to the sum of <NightlyRate/Rate> * RoomCount.
RateInfo/ConfirmType	enum	Yes, if parent present	Refer to <i>Confirm Type Enum</i> .
RateInfo/NumAdults	integer	Yes, if parent present	Max number of adults.
RateInfo/NumChildren	integer	Yes, if parent present	Max number of children.
RateInfo/ChildrenAgeLimit	integer	Yes, if parent present	Age limit for children.
RateInfo/Internet	enum	Yes, if parent present	Refer to <i>Internet Enum</i> .
RateInfo/Board	element	Yes, if parent present	Board info.
Board/BoardType	enum	Yes, if parent present	Refer to <i>Board Type Enum</i> .
Board/BoardDesc	string	No	Board description, e.g. "Chinese food".
RateInfo/Bed	element	No	Bed info.
Bed/Name	string	Yes, if parent present	Bed type name.
Bed/Desc	string	No	Bed description.
RateInfo/NightlyRates	element	Yes, if parent present	The price list of per room per night.
NightlyRates/NightlyRate	element	Yes, if parent present	Per day rate.
NightlyRate/Date	string	Yes, if parent present	YYYY-mm-dd.
NightlyRate/Rate	float	Yes, if parent present	Rate for per room per night.
RateInfo/CancelPolicy	element	Yes, if parent present	Cancellation policy.
CancelPolicy/FreeCancelDeadline	timestamp	Yes, if parent present	Timestamp of free cancel's deadline.
CancelPolicy/CancelDeadline	timestamp	Yes, if parent present	Timestamp of charge cancel's deadline.
CancelPolicy/CancelCharge	float	Yes, if parent present	Fee of cancel.
RateInfo/TotalTax	float	No	Tax fee, which is included in

			<RateInfo/TotalAmount >.
RateInfo/Remains	integer	Yes, if parent present	Number of remained rooms.
RateInfo/Promotion	string	No	Promotion information.
RateInfo/NumExtrabeds	integer	No	Limit for extra beds.
RateInfo/Remarks	string	No	Extra check in remark info, e.g "redecorated in August".
RateInfo/Facilities	element	No	List of facility.
Facilities/FacDesc	string	No	Facility introduction.
RateInfo/ImageList	element	No	Room image list.
ImageList/Image	element	No	Room image info.
Image/ImgURL	string	Yes,if parent present	Image URL.
Image/ImgTitle	string	No	Image title.

4.5.4 Nightly Rates Details

The following example shows a nightly rates response of a duration from May 27, 2016 to May 29, 2016 (two nights). The first night costs ¥305.975 and the other night costs ¥305.975.

```
<NightlyRates>
  <NightlyRate>
    <Date>2016-05-27</Date>
    <Rate>305.975</Rate>
  </NightlyRate>
  <NightlyRate>
    <Date>2016-05-28</Date>
    <Rate>305.975</Rate>
  </NightlyRate>
</NightlyRates>
<Currency>CNY<Currency>
```

4.5.5 Cancel Policy Details

The example below shows three rules:

1. No cancellation fee before "2016-05-24 23:00:00 (+0800)" (Timestamp: 1464102000).
2. ¥611.95 will be charged if it is canceled before "2016-05-26 15:00:00 (+0800)" (Timestamp: 1464246000).
3. It can't be canceled after "2016-05-26 15:00:00 (+0800)" (Timestamp: 1464246000).

Additional Remarks

1. If FreeCancelDeadline is 0, it means booking can't be cancelled freely.
2. If CancelDeadline is 0, it means booking can't be cancelled.
3. If both FreeCancelDeadline and CancelDeadline are 0, it means booking can't be cancelled.
4. FreeCancelDeadline should not be subsequent to CancelDeadline.

```
<CancelPolicy>
  <FreeCancelDeadline>1464102000</FreeCancelDeadline>
  <CancelDeadline>1464246000</CancelDeadline>
  <CancelCharge>611.95</CancelCharge>
</CancelPolicy>
<Currency>CNY</Currency>
<CheckInDate>2016-05-28</CheckInDate>
```

4.5.6 Rate Code Details

Rate code is an identification key of a specific bookable room, which depends on parameters such as CheckInDate, CheckoutDate, RoomID (if exists), BedType, BoardType, etc. Customer has to make a reservation by specifying a rate code returned in the pricing API responses. Vendor should keep the rate code unchanged as long as the specific room is bookable.

4.6 Room Price API

4.6.1 Interface description

It's provided by vendor.

Requirements: throughput > 5 QPS and response time < 10 seconds.

Haoqiao will query price and cancel policy of a specific hotel room. This API will also be used to verify the price and policy just before calling Booking API when user is trying to place an order, so it should return the correct price info of the requested room.

The rate code is the identification of the room to query, which is returned by Hotel Price API.

4.6.2 Request

```
<?xml version="1.0" encoding="utf-8"?>
<HotelRequest SessionID="194e9cc061ec38e7c40d40edd110a22b">
  <OrgID>128732</OrgID>
  <Version>1.2.0</Version>
  <AuthKey>1d72c8245c7f56c2bc5fe632ecb4724481ea805f</AuthKey>
  <ReqType>room_price</ReqType>
  <CityID>1</CityID>
  <HotelID>151</HotelID>
  <CheckInDate>2016-08-25</CheckInDate>
  <CheckOutDate>2016-08-26</CheckOutDate>
  <Nationality>CN</Nationality>
  <Currency>CNY</Currency>
```

```

<RateCode>CZTZkOGM3ZjUxYmY4OWZhNWEzZjFjOTI</RateCode>
<RoomCount>2</RoomCount>
<Adult>2</Adult>
<Children>0</Children>
<ChildrenAge></ChildrenAge>
</HotelRequest>

```

Field Name	Type	Required	Description
ReqType	string	Yes	Fixed string: "room_price".
RateCode	string	Yes	Rate identification, which can be used to identify one specific room and make further room price query and booking.
CityID	string	Yes	Global unique city ID.
HotelID	string	Yes	Global unique hotel ID.
RoomCount	integer	Yes	Number of rooms.
Adult	integer	Yes	Number of adults per room.
Children	integer	Yes	Number of children per room.
ChildrenAge	string	Yes	Children ages, comma separated, e.g. "4,5". The count of children ages must keep consistent with <Children> element. It can be empty only when no children.
CheckInDate	string	Yes	YYYY-mm-dd.
CheckOutDate	string	Yes	YYYY-mm-dd.
Nationality	string	Yes	Customers' nationality, refer to <i>Nationality Enum</i> .
Currency	enum	Yes	Refer to <i>Currency Enum</i> .

4.6.3 Response

```

<?xml version="1.0" encoding="utf-8"?>
<HotelResponse>
  <ResponseType>room_price</ResponseType>
  <Code>1</Code>
  <SubCode>10000</SubCode>
  <Msg>Success</Msg>
  <CityID>1</CityID>
  <CheckInDate>2016-05-27</CheckInDate>
  <CheckOutDate>2016-05-29</CheckOutDate>
  <Hotel>
    <HotelID>151</HotelID>
    <NameChn>亚特兰大阿尔法利塔北角东美国长住酒店</NameChn>
    <NameEng>Extended Stay America - Atlanta - Alpharetta-Northpoint-East</NameEng>
    <Room>
      <RoomID>123</RoomID>
    </Room>
  </Hotel>
</HotelResponse>

```

```
<RoomNameChn>豪华工作室型房/无烟</RoomNameChn>
<RoomNameEng></RoomNameEng>
<RoomDesc>blah blah</RoomDesc>
<RoomSize>28 square meter</RoomSize>
<RateInfo>
  <RateCode>CZTZkOGM3ZjUxYmY4OWZhNWEzZjFjOTI</RateCode>
  <Currency>CNY</Currency>
  <TotalAmount>1223.9</TotalAmount>
  <ConfirmType>1</ConfirmType>
  <NumAdults>4</NumAdults>
  <NumChildren>0</NumChildren>
  <ChildrenAgeLimit>10</ChildrenAgeLimit>
  <Internet>1</Internet>
  <Board>
    <BoardType>2</BoardType>
    <BoardDesc>Chinese Food</BoardDesc>
  </Board>
  <Bed>
    <Name>double bed</Name>
    <Desc>1.8m*2.0m</Desc>
  </Bed>
  <NightlyRates>
    <NightlyRate>
      <Date>2016-05-27</Date>
      <Rate>305.975</Rate>
    </NightlyRate>
    <NightlyRate>
      <Date>2016-05-28</Date>
      <Rate>305.975</Rate>
    </NightlyRate>
  </NightlyRates>
  <CancelPolicy>
    <FreeCancelDeadline>1464102000</FreeCancelDeadline>
    <CancelDeadline>1464102000</CancelDeadline>
    <CancelCharge>611.95</CancelCharge>
  </CancelPolicy>
  <TotalTax>20.10</TotalTax>
  <Remains>4</Remains>
  <Promotion>10% cutoff 3days</Promotion>
  <NumExtrabeds>0</NumExtrabeds>
  <Remarks>redecorated in August</Remarks>
  <Facilities>
    <FacDesc>PC</FacDesc>
    <FacDesc>hair drier</FacDesc>
```

```

        </Facilities>
        <ImageList>
            <Image>
                <ImgTitle></ImgTitle>
                <ImgURL>http://t.cn/RtenTyb</ImgURL>
            </Image>
            <Image>
                <ImgTitle></ImgTitle>
                <ImgURL>http://t.cn/Rten8UU</ImgURL>
            </Image>
        </ImageList>
    </RateInfo>
</Room>
</Hotel>
</HotelResponse>

```

Field Name	Type	Required	Description
ReqType	string	Yes	Fixed string: "room_price".
CityID	string	Yes	Global unique city ID.
CheckInDate	string	Yes	YYYY-mm-dd.
CheckOutDate	string	Yes	YYYY-mm-dd.
Hotel	element	Yes	Item label.
Hotel/HotelID	string	Yes	Global unique hotel ID.
Hotel/NameChn	string	Yes, if NameEng not present	Hotel name in Chinese.
Hotel/NameEng	string	Yes, if NameChn not present	Hotel name in English.
Hotel/Room	element	Yes, if there is price info	Room info.
Room/RoomID	string	No	Room ID.
Room/RoomNameChn	string	Yes, if RoomNameEng not present	Room name in Chinese.
Room/RoomNameEng	string	Yes, if RoomNameChn not present	Room name in English.
Room/RoomDesc	string	No	Room description.
Room/RoomSize	string	No	Room area, e.g. 12 square meter.
Room/RateInfo	element	Yes, if parent present	One rate info.
RateInfo/RateCode	string	Yes, if parent present	Rate identification, which can be used to identify one specific room and make further room price query and booking.
RateInfo/Currency	enum	Yes, if parent present	Refer to <i>Currency Enum</i> .
RateInfo/TotalAmount	float	Yes, if parent present	Total price with taxes included,

			which should be equal to the sum of <NightlyRate/Rate>* RoomCount.
RateInfo/ConfirmType	enum	Yes, if parent present	Refer to <i>Confirm Type Enum</i> .
RateInfo/NumAdults	integer	Yes, if parent present	Max number of adults.
RateInfo/NumChildren	integer	Yes, if parent present	Max number of children.
RateInfo/ChildrenAgeLimit	integer	Yes, if parent present	Age limit for children.
RateInfo/Internet	enum	Yes, if parent present	Refer to <i>Internet Enum</i> .
RateInfo/Board	element	Yes,if parent present	Board info.
Board/BoardType	enum	Yes,if parent present	Refer to <i>Board Type Enum</i> .
Board/BoardDesc	string	No	Board description,e.g “Chinese food”.
RateInfo/Bed	element	No	Bed info.
Bed/Name	string	Yes, if parent present	Bed type name.
Bed/Desc	string	No	Bed description.
RateInfo/NightlyRates	element	Yes, if parent present	The price list of per room per night.
NightlyRates/NightlyRate	element	Yes, if parent present	Per day rate.
NightlyRate/Date	string	Yes, if parent present	YYYY-mm-dd.
NightlyRate/Rate	float	Yes, if parent present	Rate for per room per night.
RateInfo/CancelPolicy	element	Yes, if parent present	Cancellation policy.
CancelPolicy/FreeCancelDeadline	timestamp	Yes, if parent present	Timestamp of free cancel’s deadline.
CancelPolicy/CancelDeadline	timestamp	Yes, if parent present	Timestamp of charge cancel’s deadline.
CancelPolicy/CancelCharge	float	Yes, if parent present	Fee of cancel.
RateInfo/TotalTax	float	No	Tax fee, which is included in <RateInfo/TotalAmount>.
RateInfo/Remains	integer	Yes, if parent present	Number of remained rooms.
RateInfo/Promotion	string	No	Promotion information.
RateInfo/NumExtrabeds	integer	No	Limit for extra beds.
RateInfo/Remarks	string	No	Extra check in remark info, e.g “redecorated in August”.
RateInfo/Facilities	element	No	List of facility.
Facilities/FacDesc	string	No	Facility introduction.
RateInfo/ImageList	element	No	Room image list.
ImageList/Image	element	No	Room image info.
Image/ImgTitle	string	No	Image title.
Image/ImgURL	string	Yes,if parent present	Image URL.

The RateInfo of response message is same as Hotel Price API’s response’s RateInfo.

4.7 Hotel Price List API

4.7.1 Interface description

It's provided by vendor.

Requirements: throughput > 5 QPS and response time < 10 seconds.

This API can be considered as a "batch mode" of Hotel Price API. It should support request at least 20 hotels once. Considering the performance requirements, returning cached prices is acceptable as long as the differences from the real-time prices are not too big.

4.7.2 Request

```
<?xml version="1.0" encoding="utf-8"?>
<HotelRequest SessionID="7c4678f8dd682f7cbcd2f6faff637e">
  <OrgID>1</OrgID>
  <Version>1.2.0</Version>
  <AuthKey>e98fafa12f3f40020c91e4c58c8db7f6de0eb821</AuthKey>
  <ReqType>hotel_price_list</ReqType>
  <CityID>1</CityID>
  <RoomCount>2</RoomCount>
  <Adult>2</Adult>
  <Children>0</Children>
  <ChildrenAge></ChildrenAge>
  <CheckInDate>2016-05-27</CheckInDate>
  <CheckOutDate>2016-05-29</CheckOutDate>
  <Nationality>CN</Nationality>
  <Currency>CNY</Currency>
  <HotelList>
    <HotelID>151</HotelID>
    <HotelID>191</HotelID>
  </HotelList>
  <ConfirmType>1</ConfirmType>
  <CancelFilter>1</CancelFilter>
  <MinTotalAmount>1000</MinTotalAmount>
  <MaxTotalAmount>1500</MaxTotalAmount>
  <BoardType>2</BoardType>
</HotelRequest>
```

Field Name	Type	Required	Description
ReqType	string	Yes	Fixed string: "hotel_price_list".
CityID	string	Yes	Global unique city ID.

RoomCount	integer	Yes	Number of rooms.
Adult	integer	Yes	Number of adults per room.
Children	integer	Yes	Number of children per room.
ChildrenAge	string	Yes	Children ages, comma separated, e.g. "4,5". The count of children ages must keep consistent with <Children> element. It can be empty only when no children.
CheckInDate	string	Yes	YYYY-mm-dd.
CheckOutDate	string	Yes	YYYY-mm-dd.
Nationality	string	Yes	Customer's nationality. Refer to <i>Nationality Enum</i> .
Currency	enum	Yes	Refer to <i>Currency Enum</i> .
HotelList	element	Yes	List of hotel IDs.
HotelList/HotelID	string	Yes	Global unique hotel ID.
ConfirmType	enum	Yes	Refer to <i>Confirm Type Enum</i> .
CancelFilter	integer	No	Refer to <i>Cancel Filter Enum</i> .
MinTotalAmount	float	No	Min acceptable total price.
MaxTotalAmount	float	No	Max acceptable total price.
BoardType	enum	No	Refer to <i>Board Type Enum</i> .

4.7.3 Response

```
<?xml version="1.0" encoding="utf-8"?>
<HotelResponse>
  <ResponseType>hotel_price_list</ResponseType>
  <Code>1</Code>
  <SubCode>10000</SubCode>
  <Msg>Success</Msg>
  <CityID>1</CityID>
  <CheckInDate>2016-05-27</CheckInDate>
  <CheckOutDate>2016-05-29</CheckOutDate>
  <HotelList>
    <Hotel>
      <HotelID>151</HotelID>
      <NameChn>曼谷悦榕庄酒店</NameChn>
      <NameEng>Banyan Tree Bangkok</NameEng>
      <RoomList>
        <Room>
          <RoomID>123</RoomID>
          <RoomNameChn>豪华客房</RoomNameChn>
          <RoomNameEng>Deluxe Room</RoomNameEng>
          <RoomDesc>This deluxe room has a great view of ...</RoomDesc>
          <RoomSize>28 square meter</RoomSize>
          <RateInfoList>
```

```
<RateInfo>
  <RateCode>CZTZkOGM3ZjUxYmY4OWZhNWEzZjFjOTI</RateCode>
  <Currency>CNY</Currency>
  <TotalAmount>5054.56</TotalAmount>
  <ConfirmType>1</ConfirmType>
  <NumAdults>2</NumAdults>
  <NumChildren>0</NumChildren>
  <ChildrenAgeLimit>10</ChildrenAgeLimit>
  <Internet>1</Internet>
  <Board>
    <BoardType>2</BoardType>
    <BoardDesc>Chinese Food</BoardDesc>
  </Board>
  <Bed>
    <Name>double bed</Name>
    <Desc>1.8m*2.0m</Desc>
  </Bed>
  <NightlyRates>
    <NightlyRate>
      <Date>2016-05-27</Date>
      <Rate>1263.64</Rate>
    </NightlyRate>
    <NightlyRate>
      <Date>2016-05-28</Date>
      <Rate>1263.64</Rate>
    </NightlyRate>
  </NightlyRates>
  <CancelPolicy>
    <FreeCancelDeadline>1464102000</FreeCancelDeadline>
    <CancelDeadline>1464102000</CancelDeadline>
    <CancelCharge>2527.68</CancelCharge>
  </CancelPolicy>
  <TotalTax>120</TotalTax>
  <Remains>4</Remains>
  <Promotion>10% cutoff 3days</Promotion>
  <NumExtrabeds>0</NumExtrabeds>
  <Remarks>redecorated in August</Remarks>
  <Facilities>
    <FacDesc>PC</FacDesc>
    <FacDesc>hair drier</FacDesc>
  </Facilities>
  <ImageList>
    <Image>
      <ImgTitle></ImgTitle>
```

```

        <ImgURL> http://t.cn/RtenTyb</ImgURL>
    </Image>
    <Image>
        <ImgTitle></ImgTitle>
        <ImgURL>http://t.cn/Rten8UU</ImgURL>
    </Image>
</ImageList>
</RateInfo>
<RateInfo>
    .....
</RateInfo>
</RateInfoList>
</Room>
<Room>
    .....
</Room>
</RoomList>
</Hotel>
<Hotel>
    .....
</Hotel>
</HotelList>
</HotelResponse>

```

Field Name	Type	Required	Description
ReqType	string	Yes	Fixed string: "hotel_price_list".
CityID	string	Yes	Global unique city ID.
CheckInDate	string	Yes	YYYY-mm-dd.
CheckOutDate	string	Yes	YYYY-mm-dd.
HotelList	element	Yes	List of hotel.
HotelList/Hotel	element	Yes	Item label.
Hotel/HotelID	string	Yes	Global unique hotel ID.
Hotel/NameChn	string	Yes, if NameEng not present	Hotel name in Chinese.
Hotel/NameEng	string	Yes, if NameChn not present	Hotel name in English.
Hotel/RoomList	element	Yes, if there is price info	List of rooms.
RoomList/Room	element	Yes, if parent present	Room info.
Room/RoomID	string	No	Room ID.
Room/RoomNameChn	string	Yes, if RoomNameEng not present	Room name in Chinese.
Room/RoomNameEng	string	Yes, if RoomNameChn not present	Room name in English.

Room/RoomDesc	string	No	Room description.
Room/RoomSize	string	No	Room area, e.g. 12 square meter
Room/RateInfoList	element	Yes, if parent present	List of rate info.
RateInfoList/RateInfo	element	Yes, if parent present	One rate info.
RateInfo/RateCode	string	Yes, if parent present	Rate identification, which can be used to identify one specific room and make further room price query and booking.
RateInfo/Currency	enum	Yes, if parent present	Refer to <i>Currency Enum</i> .
RateInfo/TotalAmount	float	Yes, if parent present	Total price with taxes included, which should be equal to the sum of <NightlyRate/Rate>*RoomCount.
RateInfo/ConfirmType	enum	Yes, if parent present	Refer to <i>Confirm Type Enum</i> .
RateInfo/NumAdults	integer	Yes, if parent present	Max number of adults.
RateInfo/NumChildren	integer	Yes, if parent present	Max number of children.
RateInfo/ChildrenAgeLimit	integer	Yes, if parent present	Age limit for children.
RateInfo/Internet	enum	Yes, if parent present	Refer to <i>Internet Enum</i> .
RateInfo/Board	element	Yes, if parent present	Board info.
Board/BoardType	enum	Yes, if parent present	Refer to <i>Board Type Enum</i> .
Board/BoardDesc	string	No	Board description, e.g “Chinese food”.
RateInfo/Bed	element	No	Bed info.
Bed/Name	string	Yes, if parent present	Bed type name.
Bed/Desc	string	No	Bed description.
RateInfo/NightlyRates	element	Yes, if parent present	The price list of per room per night.
NightlyRates/NightlyRate	element	Yes, if parent present	Per day rate.
NightlyRate/Date	string	Yes, if parent present	YYYY-mm-dd.
NightlyRate/Rate	float	Yes, if parent present	Rate for per room per night.
RateInfo/CancelPolicy	element	Yes, if parent present	Cancellation policy.
CancelPolicy/FreeCancelDeadline	timestamp	Yes, if parent present	Timestamp of free cancel’s deadline.
CancelPolicy/CancelDeadline	timestamp	Yes, if parent present	Timestamp of charge cancel’s deadline.
CancelPolicy/CancelCharge	float	Yes, if parent present	Fee of cancel.
RateInfo/TotalTax	float	No	Tax fee, which is included in <RateInfo/TotalAmount>.
RateInfo/Remains	integer	Yes, if parent present	Number of remained rooms.
RateInfo/Promotion	string	No	Promotion information.
RateInfo/NumExtrabeds	integer	No	Limit for extra beds.
RateInfo/Remarks	string	No	Extra check in remark info, e.g

			"redecorated in August".
RateInfo/Facilities	element	No	List of facility.
Facilities/FacDesc	string	No	Facility introduction.
RateInfo/ImageList	element	No	Room image list.
ImageList/Image	element	No	Room image info.
Image/ImgTitle	string	No	Image title.
Image/ImgURL	string	Yes,if parent present	Image URL.

The RateInfo of response message is same as Hotel Price API's response's RateInfo

4.8 Booking API

4.8.1 Interface description

It's provided by vendor.

Requirements: response time < 10 seconds.

Haoqiao will call this API to make a reservation for customer with the rate code returned by Room Price API. Although Haoqiao only accept instant-confirm rooms resources, the booking process could be asynchronous on vendor's side. It means that this booking API should return immediately but can leave the booking status to-be-confirmed. Haoqiao can call Query Booking Details API to fetch the latest confirmation status later.

Haoqiao will send Haoqiao order ID to vendor via this API, and vendor should save and check incoming booking requests with this ID to avoid duplicated bookings due to networking issue or any other accidental factors.

4.8.2 Request

```
<?xml version="1.0" encoding="utf-8"?>
<HotelRequest SessionID="8b5cddb85f34f55147bf8a63c92652f2">
  <OrgID>1</OrgID>
  <Version>1.2.0</Version>
  <AuthKey>5010b2cda4fa7fdcbdd69dbe9dfc6b886379e89e</AuthKey>
  <ReqType>booking</ReqType>
  <CityID>1</CityID>
  <HotelID>151</HotelID>
  <RateCode>CYzFIzJhZDg3MWE3Mzg5NTIzNTg1ZTg</RateCode>
  <PartnerBookingID>haoqiaoorderid</PartnerBookingID>
  <RoomCount>2</RoomCount>
  <Adult>2</Adult>
  <Children>0</Children>
```

```

<ChildrenAge></ChildrenAge>
<TotalAmount>1820.06</TotalAmount>
<CheckInDate>2016-09-25</CheckInDate>
<CheckOutDate>2016-09-26</CheckOutDate>
<Currency>CNY</Currency>
<GuestRemarks>late arrival</GuestRemarks>
<Rooms>
  <Room>
    <Adult first="wei" last="wu"></Adult>
    <Adult first="qiu" last="zhang"></Adult>
  </Room>
  <Room>
    <Adult first="fei" last="zhang"></Adult>
    <Adult first="kui" last="li"></Adult>
  </Room>
</Rooms>
<CreditCard>
  <Type>MC</Type>
  <Number>5329590730040290</Number>
  <SecurityCode>201</SecurityCode>
  <ExpiryDate>201709</ExpiryDate>
  <HolderName>HK+HAOQIAO+TECHNOLOGY+LTD</HolderName>
  <PayValidityDate>2017-08-15</PayValidityDate>
  <PayExpiryDate>2017-09-15</PayExpiryDate>
</CreditCard>
</HotelRequest>

```

Field Name	Type	Required	Description
ReqType	string	Yes	Fixed string: "booking".
CityID	string	Yes	Global unique city ID.
HotelID	string	Yes	Global unique hotel ID.
RateCode	string	Yes	Rate code to book.
PartnerBookingID	string	Yes	Haoqiao order ID.
RoomCount	integer	Yes	Number of rooms to book.
Adult	integer	Yes	Number of adults per room.
Children	integer	Yes	Number of children per room.
ChildrenAge	string	Yes	Children ages, comma separated, e.g. "4,5". The count of children ages must keep consistent with < Children> element. It can be empty only when no children.
TotalAmount	float	Yes	Total price with taxes included.
CheckInDate	string	Yes	YYYY-mm-dd.
CheckOutDate	string	Yes	YYYY-mm-dd.
Currency	enum	Yes	Refer to <i>Currency Enum</i> .

Nationality	string	Yes	Customers' nationality, refer to <i>Nationality Enum</i> .
GuestRemarks	string	Yes	Customer's remark info. Can be empty.
Rooms	element	Yes	Room reservation info.
Rooms/Room	element	Yes	Reservation info for one room. The count of <Rooms> must be consistent with <RoomCount>.
Room/Adult	element	Yes	Customer name for check-in.
Adult/first	string	Yes	First name.
Adult/last	string	Yes	Last name.
CreditCard	element	No	Credit card information.
Credit/Type	enum	Yes,if parent present	Refer to CardType Enum.
Credit/Number	string	Yes,if parent present	Credit card number.
Credit/SecurityCode	string	Yes,if parent present	Credit card security code.
Credit/ExpiryDate	string	Yes,if parent present	Credit card expiry date.
Credit/HolderName	string	Yes,if parent present	Credit card holder name.
Credit/PayValidityDate	string	Yes,if parent present	Credit card pay validity date.
Credit/PayExpiryDate	string	Yes,if parent present	Credit card pay expiry date.

4.8.3 Response

```
<?xml version="1.0" encoding="utf-8"?>
<HotelResponse>
  <ResponseType>booking</ResponseType>
  <Code>1</Code>
  <SubCode>10000</SubCode>
  <Msg>Success</Msg>
  <BookingID>11601042272494</BookingID>
  <PartnerBookingID>haoqiaoorderid</PartnerBookingID>
  <BookingStatus>2</BookingStatus>
  <ConfirmCode>1234567</ConfirmCode>
  <HotelConfirmCode>987654321</HotelConfirmCode>
  <TotalAmount>963.36</TotalAmount>
  <Currency>CNY</Currency>
</HotelResponse>
```

Field Name	Type	Required	Description
ResponseType	string	Yes	Fixed string: "booking".
BookingID	string	Yes	Vendor booking ID.
PartnerBookingID	string	Yes	Haoqiao booking ID.
BookingStatus	string	Yes	Refer to <i>Booking Status Enum</i> .
ConfirmCode	string	No	Confirmation code from vendor.
HotelConfirmCode	string	No	Confirmation code from hotel.

TotalAmount	string	Yes	Total charges.
Currency	string	Yes	Refer to <i>Currency Enum</i> .

4.9 Query Booking API

4.9.1 Interface description

It's provided by vendor.

Requirements: throughput > 5 QPS and response time < 10 seconds.

Since the booking and confirming actions are asynchronous, Haoqiao will fetch the order status, confirmation info, and other reservation data via this API. After Haoqiao makes a reservation via Booking API while it hasn't been confirmed, Haoqiao will call Query Booking API with Haoqiao booking ID and vendor booking ID to sync reservation data from vendor system to Haoqiao local system.

4.9.2 Request

```
<?xml version="1.0" encoding="utf-8"?>
<HotelRequest SessionID="067e0ceb75fcb6d837662fc60e2cec93">
  <OrgID>1</OrgID>
  <Version>1.2.0</Version>
  <AuthKey>0878977a8a337d9a97d2370b51dacf978df5a46a</AuthKey>
  <ReqType>query</ReqType>
  <Booking>
    <BookingID>vendor_booking_id</BookingID>
    <PartnerBookingID>haoqiao_booking_id</PartnerBookingID>
  </Booking>
</HotelRequest>
```

Field Name	Type	Required	Description
ReqType	string	Yes	Fixed string: "query".
BookingID	string	Yes, if PartnerBookingID not present	Vendor booking ID.
PartnerBookingID	string	Yes, if BookingID not present	Haoqiao booking ID.

4.9.3 Response

```
<?xml version="1.0" encoding="utf-8"?>
<HotelResponse>
  <ResponseType>query</ResponseType>
```

```

<Code>1</Code>
<SubCode>10000</SubCode>
<Msg>Success</Msg>
<Booking>
  <HotelID>279706</HotelID>
  <BookingID>11609232794344</BookingID>
  <PartnerBookingID>haoqiao_booking_id</PartnerBookingID>
  <BookingStatus>2</BookingStatus>
  <RateCode>CYTYwOGI5YzQwZWVINGY5ODM0Mjd</RateCode>
  <RoomCount>1</RoomCount>
  <TotalAmount>957.95</TotalAmount>
  <CheckInDate>2016-03-02</CheckInDate>
  <CheckOutDate>2016-03-03</CheckOutDate>
  <Currency>CNY</Currency>
  <ConfirmCode>1234567</ConfirmCode>
  <HotelConfirmCode>987654321</HotelConfirmCode>
  <HotelPhone>66 76 372888</HotelPhone>
  <CancelCharge></CancelCharge>
</Booking>
</HotelResponse>

```

Field Name	Type	Required	Description
ResponseType	string	Yes	Fixed string: "query".
HotelID	string	Yes	Global unique hotel ID.
BookingID	string	Yes	Vendor booking ID.
PartnerBookingID	string	Yes	Haoqiao booking ID.
BookingStatus	string	Yes	Refer to <i>Booking Status Enum</i> .
RateCode	string	No	Rate code.
RoomCount	integer	Yes	Number of rooms booked.
TotalAmount	string	Yes	Total fee of the order.
CheckInDate	string	Yes	YYYY-mm-dd.
CheckOutDate	string	Yes	YYYY-mm-dd.
Currency	string	Yes	Refer to <i>Currency Enum</i> .
ConfirmCode	string	No	Confirmation code from vendor.
HotelConfirmCode	string	No	Confirmation code from hotel.
HotelPhone	string	No	Hotel Telephone.
CancelCharge	float	No	Cancellation charge.

4.10 Cancel Booking API

4.10.1 Interface description

It's provided by vendor.

Requirements: response time < 10 seconds.

Haoqiao will cancel an existing reservation via this API.

4.10.2 Request

```
<?xml version="1.0" encoding="utf-8"?>
<HotelRequest SessionID="c4a36318dbca5951edc2cca07b0cf5b2">
  <OrgID>1</OrgID>
  <Version>1.2.0</Version>
  <AuthKey>d58d7d42296c86189ea505e065d07747b38694cc</AuthKey>
  <ReqType>cancel</ReqType>
  <BookingID>11609232794344</BookingID>
  <PartnerBookingID>haoqiao_booking_id</PartnerBookingID>
  <Remarks></Remarks>
</HotelRequest>
```

Field Name	Type	Required	Description
ReqType	string	Yes	Fixed string: "cancel".
BookingID	string	Yes, if PartnerBookingID not present	Vendor booking ID.
PartnerBookingID	string	Yes, if BookingID not present	Haoqiao booking ID.
Remarks	string	Yes	Cancel reason or other remarks.

4.10.3 Response

```
<?xml version="1.0" encoding="utf-8"?>
<HotelResponse>
  <ResponseType>cancel</ResponseType>
  <Code>1</Code>
  <SubCode>10000</SubCode>
  <Msg>Success</Msg>
  <BookingID>11601042272494</BookingID>
  <BookingStatus>4</BookingStatus>
  <CancelCharge>0.00</CancelCharge>
  <Currency>CNY</Currency>
</HotelResponse>
```

Field Name	Type	Required	Description
ResponseType	string	Yes	Fixed string: "cancel".
BookingID	string	Yes	Vendor booking ID.
BookingStatus	string	Yes	Refer to <i>Booking Status Enum</i> .
CancelCharge	float	Yes	Cancellation charge.
Currency	string	Yes	Refer to <i>Currency Enum</i> .

5. Enumerations

5.1 Currency Enum

Refer to ISO-4217 currency protocol, it should use not more than two types for a vendor negotiated by BD. Common currencies are *as follows*:

Enum Name	Description
USD	US Dollar
EUR	Euro
JPY	Japanese Yen
CNY	Chinese Yuan
HKD	Hong Kong Dollar
GBP	British Pound
AUD	Australian Dollar
CAD	Canadian Dollar

5.2 Nationality Enum

Refer to ISO-3166 country codes protocol, and the common country codes are as below:

Country Name	Country code
CHINA	CN
HONG KONG	HK
MACAU	MO
TAIWAN, PROVINCE OF CHINA	TW
JAPAN	JP
KOREA, REPUBLIC OF	KR
THAILAND	TH
SINGAPORE	SG
MALAYSIA	MY
UNITED STATES	US
UNITED KINGDOM	GB

AUSTRALIA

AU

5.3 Internet Enum

<i>Enum Name</i>	<i>Description</i>
0	No network
1	Free WIFI
2	Not sure
3	Charged WIFI

5.4 Confirm Type Enum

<i>Enum Name</i>	<i>Description</i>
0	On Request
1	Instant Confirm

5.5 Booking Status Enum

<i>Enum Name</i>	<i>Description</i>
1	Wait confirming
2	Confirmed
3	Confirm failed
4	Cancelled
5	Cancelling
6	Cancel failed

5.6 Board Type Enum

<i>Enum Name</i>	<i>Description</i>
1	Room only
2	Bed and breakfast
3	Half board
4	Full board
5	Lunch
6	Dinner
7	Lunch and dinner
8	Not sure

5.7 Cancel Filter Enum

<i>Enum Name</i>	<i>Description</i>
0	Any policy
1	Free cancelation

5.8 CardType Enum

<i>Enum Name</i>	<i>Description</i>
VISA	Visa card
MC	Mastercard

6. Error Code

<i>Code</i>	<i>Description</i>
1	Success
2	Authentication failed
3	Reserved
4	Operation failed
5	Access failed
6	Reserved
7	System failed, no need subcode

7. Error subcode

<i>SubCode</i>	<i>Message</i>
10000	success
21001	authentication deny
40001	PartnerBookingID already exist
40002	create booking fail
40003	create booking fail, TotalAmount changed
40004	BookingID or PartnerBookingID provide
40005	booking not exist
40006	confirm cancel booking
40007	credit quota limited
40008	booking cancelled

40009	booking canceling
40010	booking cannot cancelled
40011	booking not confirm
40012	create booking fail, RateCode not exist
40013	PartnerBookingID already exist
40014	booking is being processed
51001	Reserved
51002	Reserved
51003	CityID not exist
51004	HotelID not exist